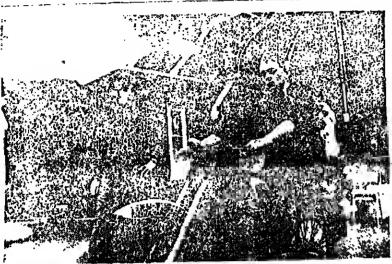
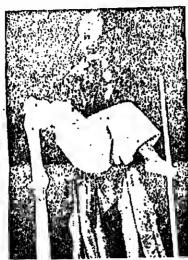
THETIMES Higher Education supplement







Rare sparks of originality (from left): Allson McCaw and Tim Potter in Carlisle College of Art's Like Dolls or Kubiki King Lear; and a scene from The Dark Tower by University College Cardiff. Photos by ion Wright.

Conservalism with the smallest pusable "c" afflicted all aspects of the twenty-second student druma festival held at St Andrews last week. Although socially the most successful of its kind on record—groups actually talked to one another in a fairly constructive spirit—thera was little sign interpretable actually talked to one experiment and no single production which set the festival alight.

Much of the best work tool well-worn paths, and there were only fout sparks of the adventurousness which has characterized this festival in the past.

Enter conservatism, exit experiment at S

suge The Dark Tower, Louis Muc.

Solid of Carifficed all aspects of the though solid in the same set, the ents added mine and group wavement to this Brown testival held at St Andrews last week. Although solidly the uses accessful of its Rund of the conservation of the set week of the adventurous complete—there were alltic sign and prage from the author's lutter appropriate and proposition of the set with the set the festival nlight.

Much of the best work tood welf-worn paths, and there were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set were only four sparks of the adventurous conservation of the set of the set were only four sparks of the adventurous conservation of the set of the set were only four sparks of the adventurous conservation of the set of th

Equally the Cambridge Krapp's Last Tape tried to preacht the protagnosts as a murionette enther than as anything recognizably humon; and here we much upon the undercurrent of anti-humanism which can through some of the feetball entries.

Time only again we saw Cambridge productions of great techni-cal ability which we a so stylized

Similarly, in the Cambridge Municers one-man show Rax, we were given a self-consciously elevar dissection of youth cults in the 1969s. In it law lames gave an untiminten-like display of audience domination that was not strictly spouking octing at all, rather more an ossay in mass manipulation. If those invulved had puld more attention to human busics (like who and where is the nurrator and who is the "Roxanne" ha is addrussing and less to quest-opneolyptic thrades in which heurr is entirely subjected to had, then there might have been more remutation to take it corlously. As part of the sume trent, Buth

debute interspersed with from the quart 100 years he The Grange, The Green, he White and Blue was pool more educational value with cast who researched it base cal value to tha However, in its favour his that, alone of the new less formed, it was conceived us Tho rest could equally will been transferred to redit it.

been transferred to don't vision without loss. They split Level by Inine Res Fitzwilliam College Camba won the hest student playsingsests that Sir Haroli the competition judge? Proversity with him to An enormously indulged showed over known fault.

it was nutclussed by impleces of new work at the pleces of new work at the und prosumably got the and because the rest were the provised or penned by north tend fearn from Bigginge's A Prairing Raim and Hall's Saturdap, both of whit is feel what it is like to be able in undern day British than just telling us.

new inhiatives.

Next week: "On the other texturines life at the festival

John Rutherglen

University one of the country's a moving shortly to the University less be senior administrative of series of senior administrative of series of s

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Library labyrinth

"A BOY WAS BORN"

The British Library is the central reference, lending and bibliographic service in the UK. Patricia Santinelli gives a guide to its many parts, Briefing, 9

first five years of an disadvantaged, 11 Leader, 14

An education programma cummittee and a resources committee, responsible to the governing body and with substantial gubernatorial representation, have also been proposed, a system that the unions maintain will largely exclude acodemics from final decision making. Its heart beats, it breathes. it dies: Fergus Gleeson

Don's Diary

Laurie Taylor has been reading the new biography of Spooner, 5

The APT askad Mrs Williams to reconsider her decision to allow the merger to go ahead. The association and the taacher unions in Coventry went the collega to merge with the University of Worwick.

Their have been been spiral to the control of the engineering, 15 Their hopes have bean raised because the Conservatives, who supported the university merger, have just regained power in Coventry, But Councillor Charles Maxwell,

Julius Gould reviews a new Mr lan Boraston, secretary of the polytechnic's NATFHB branch, said this weak that his union was very disturbed over the lack of dis-cussions. The students' union also miointained; that an attack on the configurate educational autonomy was book The Hidden Injuries of Class, 18

Sandwich degrees

Mr Robert Airken, Coventry City Council's director of education, was unavailable for commant. new research into the effects of sandwich courses, 10

The Association of University Teachers is concerned at the growing level of unemployment among rasearch staff. The latest Department of Employment figures (as yet unpublished) show that more than 1,000 university researchors are registered as unemployed, representing about 1S per cent of the total.

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Enter conservatism, exit experiment at student drama festival Technical College chose to se the history of Northern Itali in human situations but exten-of facts. Staged as a parlam

cai ability which we've so stylized on to wring the heart out of a text. The most striking example was the independent Theatre Group's King Lear in which all lines were on that showed the characters as human rather than political brings. The perverse alm was to show that Cordella caused Lear's downfall by being pulitically unrealistic.

being initically unrealistle.

The result of such Nahum
Taterie was to reduce a great
humanist text to a mere political
diagram which neither anneal,
entertained, nor checibited. It was
like beautifully animated geometry
through which Shukespeare's words
kept breaking in him at horizons of
humour, composition and political
understanding far hayond what the
director cored to show us.
Similarly in the Combolites Manne

Similarly, in the Cambridge Mon-

showed every known faulth playwriting while publish sely, and wordly exploit thened version of Stephoe

Than just telling us.

The whether individual were ground, and or indillers necessage of this feetly all tells of an inanvative slump, and present look to student drawn any inhinitives.

Seek places Our living Our l

Staff to fight local authority control threat Staff at Lanchester Polytechnic are

riree on Edinburgh, Aberdeen and Glasgow, that the future policy should be one of concentration on universities which had shown the "greatest resourcefulness and vitality" and the coll for a more vigorous recruitment of British-born academics. planning to oppose proposais by Coventry City Council to aiter sub atanually the government of the coliage and bring it more firmly undar local authority control.

A naw draft of the polytechnic's inetrument and articles of govarument was circulated to branches of the Netional Association of Teachers in Further and Higher Education and the Association of Polytechnic Teochers at the collage last week. They now claim that if the draft is approved it will seriously reduce autonomy.

Both unions maintain that the atanually the government of the

Both unions maintein that the local authority is using the planued merger of the polytechnic with Coventry College of Education as

Ironically it was an aarlier conference in Aberdeen in 1975 that set up the report team, the Intar-Uoiversky Committee on Scandinovian Studies.

Dr Popperwell, the committee's choirman, said this week that a draft of the report had boon distributed to university dapartmente for comment before last month's cooference, Ha added: "There was dissent at the conference ebout three points made, I pointed out that it had to be regarded as a definitive report but if we had discussions with outside bodies they would be informed about this dissant."

Fears thet the more unpopuler an opportuaity to revise radically dissant."
Fears thet the more unpopular recommendations may now be implemented were intensified when a fatter from Sir Frederick Dainton, chairman of the UGC, was distributed at the conforance. It said: "You might like to know that the line advorated in your report accords very much with that of the the articias of government. Theic appeals for representation on o opecial marger steering committee, set up by the council to draw up a new scheme of government, hove been refused, they say.

Under the local authority's plan the college's governing body, which has strong local authority and outside rapresentation, would have more direct rontrol over day-to-day cunning of the polytechnic.

An education programme cum-

at Cambridge University, it met with bitter criticism at a mojor conference of university teachers of Scandinavian studies at the University of East Anglia last month. Delegates olleged that the report, published a month bafore the conference, had been prematurely dismibuted to due UGC and university vice-chaucellors without full and detailed consultation in the field. They toted by a substantial mujority against the more controversial proposals. These included recommendations that there should ultimately be only one centre of Sceudinavian studies in Scotland, instead of the present University, soid: "I feel very Jewish culture 'yes' Jewish politics 'no'

Critics also opposed a suggestion that laolated institutions providing Scandinavian studies as a constituent part of a separate honours or

general degree and with a single tenured appointment or partime staff should be the subject of a special review of academic contribution out files.

April 29, 1977. No. 288

cpais.

Prepared by a seven-man team of sedemles, chaired by Dr Ronald Popperwell, lecturer in Norweglun at Cambridge University, it met with

The Union of Jewish Students is scuking an injunction to restrain members of Sulfard University from disrupting an Israel week. This fullows the refusal of the Salford students' union to give undertakings that the activities, to be conducted next week, would not be disrupted.

The union possed a mother that zionism is reclamated activities.

The union possed a unothen that zionism is roctemed earlier told the UJS that they could have a cultural but not a political week.

Lest term the UJS was grouted on injunction to stop students at the University of Manchestur Institute of Science and Technology discussing the motion on thomas.

Mr Alan Elsner, field officer of the UJS, said this Mr Alan Elsner, field officer of the UJS, said this week: "Wa are determined to keep the Jewish society at Salford elive and we are going ahead with our Isroel week. We have been told we cannot use the union facilities for zhoalsm, though no one of Salford seems fir we could have a Manchester rabbi to speak on think about it. Ha thought it would be all right to speak the links.

THE TIMES

SUPPLEMENT

Mr Lauria Sapper, general sacre-tary of the association, said this week that the right financial stun-tion in universities was threatening more cutbacks in research staff, in particular in important branches of medical science such as immunology, certain aspects of carnon research certain aspects of cancer research and drug addiction.

Sussex scheme

Peter Simpson reviews the admissions scheme for the

Robot patient

describes this new teaching

demics from flual decision making. In a strongly worded lotter to Mrs Shirloy Williams, secretory of state for education and science, the APT los pratested about the La.o.'s inications over the merger. Also there had been no meaningful consultations with the city's merger steering contamities, on which only the directors of the polytechnic and Coventry Collega of Education were represented, said the association.

Class conflict Conservadva spokesman on educa-tion said the polytechnic merger had gone too far to be stopped.

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Social scientists hear of government secrecy

Social scientists efforts to gain government, better access he Whitchill were

ssocietion.

She said: "My experience of government in the pass three years has in no way weakened my conviction that there is too much secrecy and too little public access to what goes on. There is convicted as an experience of siderable sympathy in government christs and wilch politicel scientists could be better and more fruitful would be better and more fruitful would be a better and more fruitful access and concerned with the means of cadura; she added.

Mra Williams coucludad: "Ir is not for politicians to tell political aclentists what to do. But there does a coincidence of the said. Resignces had to be itself spiritual in the relationship betwoen aducation and industry ood should be come an industry of the total from 14.3 per cant lost of cadura; she added.

Mra Williams coucludad: "Ir is not for politicians to tell political aclentists what to do. But there does a coincidence of the said. Resignces had to be in the relations form to the reach of the rotal than the relations between Brussels and washinister were quicklet bone on which political scientists could the ducation was virally important in the relationship between aducation and industry ood should be concerned with the means of civilized society.

Reduction was virally important in the relationship between aducation and industry ood should be concerned with the means of civilized society.

Reduction was virally important in the relationship between aducation and industry ood should be concerned with the means of civilized society.

Reduction the rotal than the reach of the rotal from 1.54,000, compared the reach 1.54,000, the cadment of the could find the reach with the means of civilized society.

Reduction was virally important in the relationship between aducation and industry ood should be concerned with the means of civilized society.

Reduction to view industry in deduction was virally into the reach 1.54,000, compared the reach 1.54,000, the cadment of the could from 1.54,000, the cadment of the could from 1.54,000, the cadment of the co

annual meeting of the association in much benvier traffic in both in Liverpool amplify the hints also directions. L'emphasiza the two-way dropped when she mat the Social flow bacauso I am conscious of the Science Research Council recently. Science Research Council recently. Sho favours both the reform of the to saek the help of political Socrets Act. and social scientific.

science research that is more practicolly halpful to the conduct of

better indices to Whitehall were

At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of strongly supported by Mrs Williams. At Liverpool the incident of process by which it serns its living. Sp. Alox Smith, director of Manch of Speaking at a seminar at the polytechnic, hos said.

Speaking at a seminar at the polytechnic on the role of higher education in society, he criticized the tondency in education to view industrial work as inferior.

Six Alox Smith, director of Manch of Mrs. The number of upplications, ot about 150,000, compared with nearly technic on the role of higher education in society, he criticized the tondency in education to view industrial work as inferior.

Williams. At Liverpool the incident on process by which it serns its living. Adoptions, (UCCA).

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Williams. At It is expected to process by which it serns its living. Adoption of the upplications, ot about 150,000, compared that the first Universities. Central Council on Adoption of Manche of Manc

four page report of ment university and page nic budgeting Professor Ellipit Jagues trial deolocracy Colin MacCube on English lng at Cambridge Alexander Gunn on studen

hoi abuse Reviews of new classic

hy Clive Cookson science correspondent

Mathematics must be given priority maticians have urged.
In the annual Cockroft Lecture

In the annual Cockroit Lecture at the University of Manchester Dame Kathleen suggested mot Institute of Science and Technosing Dame Kathleen Ollerenshaw mathematic would eventually be a required entrance qualification for said the severe shortage of maths teachers could be alleviated almost immediataly if the subject were treated as a special case.

treated as a special case.

For example, married women with mathematical qualifications who wanted to return to teaching were often unable to get jobs because schools in their pressure already fully staffed and teachers were already teaching marits "albeit with no mathematical qualifications or competence". These woods should be given priority for vacanoias created by schools moving those teachers who were "manifestly ill-equipped" so that there was "at least one competent to make sure that each part of the revival of mathematics education. Some of the niost important were:

To set up local ansthematics centres. They could be just a base for mathematical gomes, cliess, and competitions, or they could offer O-level and A-level classes and belp with homework after school hours or at weckends.

To ensure that mathematical talent is noted whenever it appeare (especially in the very young) and laten fostered. lig those teachers who were "manifestly illequipped" so that there was "at least one competent mathomusician in each school".

Dr Edwin Kerr, chief officer of the Council for National Academic Awards, mada a cimilar suggestion in his presidential address to the Mathematical Association's recent conference, "I suggest that l.e.a.e and head test there fix an establishment and the suggest are suggested. ment and that when vacaocies are these posts ore only filled, on a permanent basis, by well-qualified teachers."

Both Dame Kathleen and Dr Kerr classes.

More in Civil

Service hunt

emphasize the importance of well-planned and coordinated in-service training. They said mathematicians over other subjects in the training old outployment of teachers, two of Britain's most influential mathematicians have urged.

Sandha de given priority when the places were allocated on courses.

Dr Kerr said inadequately qualified people should be bacred from enuloyment as mathematics teachers. chers, after a date to be specified. Dame Kathleen suggested that schoolchildren be told that O-level

sha outlined 17 points of a long-term stratagy for the revival of mathematics education. Some of

To make sure that each part of the mathematics syllabor tests the solility to think and to reod and write full mathematical ecutences.

To remova high filers from mixed ability mailtematics classes and develop their apecini talents separ-ately for at least one session per week.

To deviso and provide bench-

marks so that teachers know whot ie expected of their mathematics





Dr Edwin Kerr ond Dame Kstbleen Ollerenshaw agreed on polority for mathematics.

US link in adult

Vocational role rejected

A studio andlence in the BBC Radio Four programme You The Jump voted io a broadcast last weekend against the proposition dust universides should be more vocational. It rejected the advocacy of Lord Crowther-Hunt, former minister at the Department of Education, and tho witcesses he called such as Lord Robens, chancellor of Surrey University. The argumants egainst vocationalism were led by Dr Kenaeth Minogus of the London School of Economics.

Japanese studies' grants

Department of Education and Science. The greats will be awarded to those whose theeas involve Japanese. They will be available from October.

Reading University finance

Sponsored research projects, not computer services, contribute 11.04 per cant of Reading University's income (THES, April 22). Comper cant.

The WEA had reached 170,000

Trades union coucstion bad for income (THES, April 22). Computer aervices contribute 0.07 per cant.

The WEA had reached 170,000

Students in the past year but there was a need for a major initially alf Britain were to match the prevision of Swedan.

The WEA had reached 170,000

Trades union coucstion bad for the past year but there are long way in the past 10 years and one of Swedan.

Workers' Education Association rally

Call for grants 'Integrate to be part-time 'earmarked' work fully' An expansion of partime profise as an integrated component of the educational system has been called for by Dr Keith Hampson, the challenger of the Conservation of the Conservation complies.

Reports by Suc Reitl

Local eduration andiorities are uot in a strong enough financial position to give more to abolt education, Mr Andrew Fuirbaira, chief education officor of Leicestershire,

education officor of Leicestershire, indicated last week.

Sounding o pessimistic note at the Wish rally at Harrogae it urged a rebirth of parttime education, a sector in danger of college. eye of conference rolly at Harrogato Mr Fairbairn warned that it was honeless" to expect i.e.o.s to pro- and o drive to correct this The

"Mr Fairbairn warned that it was "hopeless" to expect i.e.o.s to protect this sector when the Government in ite public expenditure white paper had singled it out for cuts.

Csiling for the introduction of "carmarked" grants for particulor ecctors of education Mr Fairbairn warned that die present Rate Support Grant arrangaments militated against tha authoritice helping the WEA and other bodies responsible for adult education. The National institute of Adult Education and de nawly-proposed notional advisory council for adult and continuing education should now spearhead e campaign to underlice the positive contribution this sector could make to educational development.

Mr Faicbairn added: "If education is a new form in it is a new form in it is a new form in the belief of the mistakes of the raising the school leaving ago had been to it is a new form in the course of the mistakes of the raising the school leaving ago had been to it is a new form in the course of the mistakes of the raising the school leaving ago had been to it is a new form in the course.

Composition of the continuity of the mistakes of the raising the school leaving ago had been to it is a new form in the course.

Composition of the continuity of the mistakes of the raising the school leaving ago had been to it is a new form in the course.

Composition of the continuity of the mistakes of the raising the school leaving ago had been the needs of the whole community."

Education in schools should be so stimulating und enjoynble there is a need to the school leaving ago had been the needs of the whole community."

Education in schools should be so stimulating und enjoynble there is a need to the course of the mistakes of the raising the course of the mistake

orward into adulthood.
Commenting on the current

ouncing strongement he said : The secretory of stata needs to ensure that the education service is administered by the fairest methods. If grants for different parts of the education service were carmorked, local education authorities would be able to ellocate funds quantitatively."

If grants for different parts of the education service were carmorked, local education authorities would be able to ellocate funds quantitatively."

The country now needed a new breed of teacher capable of working in the difference ellocation sectors. Mony teachers taught only in one sector and "knew nothing and caceil less" shout what was happening elsewhere.

Cust-effective.

The Ainlt Lijeracy Resemble to the Ainlt Lijeracy Res

ignored' in great debate The Government's greet delinte has excluded odult and recurrent education, Mr Hill Hughes, president no the Workers' Educational Association and principal of Ruskin College, Oxford, has claimed.

light of mailtant onvisory consist the wide might be ullowed to consist the wide might be unliked to the wide migh

lime courses.

A change of ottitude was medical

as a preliminary to moving in the field of "brokerags" educate where the system matched the set This, he maintained, would also cost-effective.

We need a unional incesse

He maintained that a great dehate on education os a whole, roloting to eoclety and the world of work, was now needed which might call for a radical readjustment of educational priorities.

Adult and recurrent sectors

Mr Hughes said: "Since 1944 we have concentrated on the oceds of hava concentrated on the oceas of initial education, raising the school leaving age, expanding university and technical colleges. The bone-fits hova gone largely to the limited section of society whose children gn un to full tima education beyond the aga of 16. The majority, moinly working class, part compony with the educational system at that age and never return."

Part-time education was being allowed to decline, consideration was not being given to day release for school leavers and paid educational: leave; was not being ideveloped, ha declared. Even the Opan University was designed to

Opan University was designed to cater for those prapared for degree lavel work while the real need was for on "open" secondary action or college catering for those deprived of education after the minimum school lawing age.

The Deportment of Education and Scienca was now lounching o faw pilot schemes for the 16 to 19 age group and had rejuctendy estable. In the description of the future, and determining lines of dealing ment for the future, and lines of dealing pilot schemes for the 16 to 19 age group and had rejuctendy estable.

Industry brain drain begins Belgrade memo with Oxbridge—Dr Sloman Belgrade memo may provoke Eastern bloc

Rehaia's brightest students were still most arracted to Oxford and Combridge, Dr Albert Slower, vice-clamcellor of Essex University, said here last week. For many their subsequent abjective was either to stay at Oxbridge, work in other universities or go into the professions. They tended to avoid industry and government. Dr Sloman, speaking in a meeting of more than 70 university heads from 21 Enrapean countries, called for far greater additing between British universities and industry.

But the cooperation should not be at the expense of continuing to give students a general, broad-based education ar madergraphing level, he soid. He compared the situation in Britain with that of Pronce "where many of the clererest students wentonaftergeneral education to a

est students wentonaftergeneral education to a grande école in train to be specialists in gurernment aud running the country". And he said it was "lamentable" thin populs in British

it was "lamentable" than munits in British schools were allowed to give up "central subjects" very early during their secondary studies. This again meant they arere being channelled too soon into a specialist pattern.

Organized by the Conference of Rectors of European Universities (CRE), the theme of the two-day meeting was "The Social Relevance of University Teaching".

Those taking part from Britain included the principals of the universities of Aherdeen, Dundee, Ediuburgh, Glasgow, Herlot Watt, St Andrews, Sticling and Strathelyde; the rice-chancellors of Essex, Reading and the University of Wales; and the secretary-general and execu-

of Wales; and the secretary general and executive secretary of the Committee of Vice-Chancellors and Principals. lors and Principals.

Higher education today was very expensive, sald Professor Ludwig Raiser, the CRE's West German president, and the general public was understandably concerned about whether it was getting value for inpucy. **European University** Rectors' Conference

But it would be a mistake, he emphasized, to equate relevance of what is ranghi with narrow rocanimalism. Surveys had shown that those students with the most specialized training were the mes finding it hardest to get work in today's shrinking job morket.

Nor, according to Professor Francois Luchaire, president of Paris 1, should vocational teaching be the major rule of universities. It was rather to sprend "general culture" to all who were able to benefit from it. The development of the "whole man" was a socially relevant task for

Other participants pointed out, however, that the French universities were able to do this because of the existence of the grandes cooles in train the managers of society.

The conference more the less agreed that much remained to be done to reduce the gay herween the universities and industry.

Participants were sceptical about the value of manpawer plauning. Flexibility based on more interdisciplinary studies was a better approach. The Scandinavians emphasized the importance of adult education, in particular opening the environments to all those over 25 with at least

two years' wark experience. Interest was shorn in the British samplych courses and the special

rule of the polytechnics. Fears were expressed that tan much attention was being paid to teaching in universities. There was a danger of universities becoming "profes-shoul schools". It was agreed to follow-up the Edinlargh uncering with a meeting in six months' time on "The Social Relevance of University Research".

the CRE is to send a six-page memorandum on higher education cooperation to the country Bel-grade meeting of heads of government which has

prode meeting of heads of government which has been called to monitor progress on the implementation of the Helsight agreement.

Although the memorandum, which is still confidential, is said to be "immorants", the fact that the CRE has decided to send it at all 1s not likely to be welcomed by Societ block universities. Talks aimed at ending the victual East European hoyeout of CRE, which have been going on for more than three years, are now deadlarded.

deadhart ed.

The CRE has said it would welcome full purticipation from throughout Europe, but that membership must continue to be restricted to milversity heads rather than institutions. This, it argues, makes for the best furum for a frank eventual of vices.

exchange of views.

The Sweiet Union, on the other band, has branded this approach us a "vice-chancellors' club" and accused the CRE of "Culd War" connexious. It wants a far more formal orrange-

ment.

CRE leaders here were at paids to stress that the menurandum to Belgrade was not on behalf of "European" universities, but only the members of the Conference. It is underetood the ducument reasserts CRE commitment to pan-European cooperation and that criticisms of the east in the first draft have been watered down.

The memorandum is expected to call for the provision of special funds by the ffelsinkl agreement governments for academic exchanges; for better liaison between universities and government denormacity in cultural marters; and for

ment departments in cultural marters; and for many more joint research projects.

Among the obstacles to cooperation it will list the lack of information about developments in such disciplines as social science in the

'Polys are key to change?

unbroken circle of cducational experience. A univorsity student graduates in a discipline. He may then cuter u school to teach dio some disciplines in which he himsaine disciplines in which he limi-self was trained. The pupils thus trained by him are selected so that the most able will reproduce tha disciplines in which the teacher himself was originally trained.

The dominance of the academic

disciplines going round and round withou application to the reol world of everyday affairs thus created a serious inbolance. They dictored the character of the school-leaving examinations and the character of the achool curric-

nlum."

There grew op a hierarchy of esteem among the subjects, Dr. Nuttgens argued. At the bottom were those subjects with which the university found difficulty caping; visual, creative and physical skills. "While the universities maintain their stranglehold on schnol-leaving examinations, it will not be possible to escapa the inevitable assumption in society that theoretical people are stupid."

Dr. Nuttgens gave examples of the applied wante of some coursee being run at Leeds Polytechnic. They included librarhunship, architecture, surreying, operational

tecture, surreying, operational research ond computing, electrical engineering, dietrics, law and business studies.

Principal dampens grants rejoicing

Universities shand not rejoice too soon about the unexpectedly small cut in their grout for next year, Dr. Adwyn Williams, principal of Ginsgow University, has werned.

In the university newsletter he says that the originally proposed 4 per cent cut would have resulted.

per cent cut would have resulted in a 5.7 per cent cut in resources

and the actual cut will mean of drop in locomo next year of not l bin 2.5 per cent.

The imposition of a cash binit on the grant which precluded any increase if unforceen expenses had to be met required precise prediclinu of die cost of increases in salaries and wages and of the rate

Dr Brenner, oged 50, is of presant head of the laboratory's cell blology division, and a leading figure in the world of molecular genedes.

Research Council causes and the succeeded by Dr Sydney Mr B. B. Ovary, Ragistrar for Technology of the Council for National Dr Brenner, oged 50, is of the leboratory's lead of the leboratory's

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There may be trouble ahead

A big increase in the number of candidates for jobs and a big decresse in vacancies are shown to the Civil Service Commission's 1976 Report. There were 2.6 bis external condidates for Home Civil Service odministration traince posts, 40 per cent more than 1975, though the commission noted no improvement in the number of very oble applicants. The number of jobs for them fell by more than 15 pec cent to 120.

The reduction in scientific officer posts was much more dramistic. Only 128 were appointed in 1976 (well under half tha 1975 (figure) out of 7.091 applicants By

to 120.

The reduction in scientific officer posts was much moco dramstic. Only 128 were appointed in 1976 (well under half tha 1975 figure) out of 7.091 applicants. By the end of the year misny deparements had been forced to stop resources. universities.
In his contribution to the hook,
Hnzards of Learning, a collection of
talks given on Radio Free Europe
In recent years, Professor MacRss The Commission defends itself against accusations of hins in feeture of university life for 800 favour of Oxbridge candidates, though it notes that almost 60 per cent of external candidates successful in the 1976 administration

oxford or Cambridge.

Women comprised 42 per cent of the standard of the stand Oxford or Cambridge.

Women comprised 42 per cent of administration trainee candilotes for the home civil sarvice, yat only 28 per cent of thisse appointed were women. In the diplomatic aery vice only one of the 17 auccessful administration trainee conditates of Bucklopham. Professor Alala Toursine, the French sociologist, and lord investigations. were women. In the diplomatic aery vice only one of the 17 auccessful administration traince emidiates and lord james, former vicewas a women, although 36 per cent of the 1,189 applicants were distributed by G. R. Urhan. Temple Smith, £6.75.

News in brief

He sold that tolks between the listinute and Professor Jack Mezirow, of the Columbia Teochors' Collegs, had token pince.

The Japan Foundation Endowment Fund, administered by the University of Shaffleld, is offering supplamentary grants to postgraduates in social science end humanities socking studentships from the Social' Science Research Council or the

Publishers protest

Twenty-three British publishers have written to the President of the Argantine, General Jorge Videla, to protest above the errest of two colleagues, Daniel Divinsky and Ana Maria Miler, directora of Ediciones de la Flor, Buenos Aires, for having published Cinco Dedos, a children'e book in 1975. The letter eeks for information about the fete of the two.

But, sold Mr Ilughes, the print tles outlined in the 1973 Russi report on odule education for it dressing the bolsness to meet he needs of the majority, especially in the control of the majority, especially in the control of the majority, especially in the control of the majority especially in the control of the cont

needs of the majority, especially inderprivileged, now required comprehensive attack. A combine operation involving all the agenda was necessory to give all people in right and the possibility of beaching from education at a period of their life when they recognized is need.

In his later presidential address to the conference Mr Hughes with ned that economic restrains of adult education, particularly is the local authority. adult education, paracular iocal authority sector, were least ingly severe. If present trends of timed this might lead to worthwhile courses being present trends of the courses being present trends of the courses being present the course of the course of the courses being present the course of t out of the market.
Mrs Williams, Secretary of Set

for Education end Science in indicated that some funds for now advisory council for any k

'More union training needed

Trades union education ie now a distinctive branch of worker education but another 60,000 training places will be needed in the posischool sector to achieve full industrial democracy. Mr. Roy Jackson, of the Tredee Uolon Congress, said.

The TARKA Load.

and never return."

after Lords pass London Bill Loudon University's Bill, cleared another hardle on Friday when a House of Lords committee of head continued that the AUT propersity concluded with a recommendation that it be passed with our power to the teachers and so reduce the voice of commentation as to reacher aniendation. power to the teachers and so reduce the voice of congretation as to render it ineffection. It objected to the union's request for consultation before making statutes us intrensionable and us a fluir plured on its after university, but it claimed that it had given an undertaking to see that the union did receive copies of statutes that were passed.
Consultations with trackers, it said, were already insured by inclusion of two representatives of the APT on the body that was to

mendation that it be passed without amendment.

The hearing followed a challenge by the Association of University
Teachere, which wouted the senate representation modified in favour of the teachers and entrenchment of the teachers and entrenchment of its own tonsultative status. The association is now emisidering whether to take the petition to the House of Commons, where it expects to find a mance favourable response.

response.

The decision camo after o six-day hearing before a committee headed by Lord Derivent. If the Bill is secreted it will enable the university to change its stantics.

To challenging the provisions of the Bill the AUT argued that the teachers, other than heads in schools, were entitled to 60 per completed to 60 per complete the second on the enate on the ground that heads of schools were to closely identified with the town of the university to allow the interpresentatives of the university who spoke during the six-day hearing included Dr Frank that they they depose their versity who spoke during the six-day hearing included Dr Frank that they they depose the university to university the allowed the interpretation of the university to university to include the interpretation of the university to include the interpreta Other representatives of the university who spoke during the six-day hearing included Dr Frank Hartley, the vice-chancellor, and Mr N. V. Hunre, the depoty chair-

them ts represent the views of tea-chers, for whom the acodemic inde-pendence of the schnole was most pendence of the schoole was most apportant, and that convocation wielded too much power there.

The AUT also sought to limit convocation to a minor role in the substraity's affairs and to remove a protective clause that would preserve its status. It called for the includion of representatives of lucal government, the Trades Uolon Cangress and the Confederation of which ladustry on the court and from making statutes without prior considerion.

For the School of the School of the court and from making statutes without prior considerion.

For the university it was orgued hat the inclusion of a substantial number of representatives of convection in the governing ladies of the university brought with it a rage of teleut that views from the stated warld were begat; under the terms of the Bill its representation has to be reduced from one-third to one fifth of the total number of seasto seats.

Among the functions traditionally tried out by convocation were assistance in vorious committees. Formal representations and though this was declining.

last week's THES report of the De-partment of Education and Science's view of the Bill. Broadly, although Mrs Williams, Secretary of State for Education and Science, attached br-portance to the principles embadied in it she made it very clear that she had no comments to moke on the clauses as drafted. "In fact, the Attorney General, who has also reparted un this Bill, ludicated he considered that it was for Parlioment to consider whether the safeguarde provided by it were sufficient." sufficient."
Mr Peter Griffiths, secretary of

last week's THES report of the De-

Formal representation of the TIC propriate for the government of an interaction of the more an appointed an inversity, and it proposed instead that the Lords hearing, but was disable to the persons appointed an inversity, and it proposed instead that would include nominees of the to the proposed instead that would include nominees of the calls of the proposed instead that would include nominees of the calls of the proposed instead that would include nominees of the calls of the proposed instead that would include nominees of the calls of the proposed instead that would include nominees of the calls of the university community estimates a system of capation (We feel the Bill is in the intercept of the university community estimates a system of capation (We feel the Bill is in the intercept of the university community estimates and the university community of the university of the university community estimates the proposed that the proposed instead that they would not take it any further.

"We feel the Bill is in the intercept of the university community estimates and the university of the univ



More accurate long-term records are useded of population changes entong the three million or so pairs of scabbrds, like these gouncia, that breed round the British Isles, a Natural Environment Research Council report says. Present knowledge owed much to the consistent enthusiusm of omateur ornithologists, such they should be encouraged by grante for travel and other expenses. The report describes current research and identifies also priority oreas for future work. Mr N. V. Houre, the depoty chairmon of convocation.

The AUT was represented by Mr Louis Blam-Cooper, CC. It was the unity body to pentition the Brillsh Isles, a Natural Environment Research Council report for increases in salaries and wages and of the rate of increases in salaries and wages and of the rate of inflation.

Even more warrying was the fact and other expenses. The report describes current research and identifies although the acudemic staff at the acute of increases in salaries and wages and of the rate of increases in salaries and wages and of the rate of inflation.

Even more warrying was the fact and other expenses. The report describes current research and identifies and other expenses. The report describes current research and identifies and other expenses. The report describes current research and identifies and other expenses. The report describes current research and identifies and other expenses. The report describes current research and identifies and other expenses in cost.

The AUT was represented by Mr Louis Brillsh Isles, a Natural Environment Research Council to the consistent enthusiusm of of inflation.

Even more worrying was the fact and other grants were not annual identifies and other expenses in cost.

Even more worrying was the fact and other expenses in the interest was a salaries and wages and of the rate of inflation.

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Even more point grants were not an identifies and other expenses in the interest was a salaries and wages and of the rate of inflation.

Even more point grants for the salaries and wages and of the rate of inflation.

Even more point grants for the salaries and salaries and wages and of the rate of inflation.

Even more point grants for the salaries and wages and of the rate of inflation.

Even more point grants for the salaries and wages and of the rate of inflation.

Even more po

genedos.

Hn was born and educated in South Africa (he stuilled medicine at the University of the Witwatersrand) ond came to Oxford for his DPhil studies. After e spell working in the United States, Dr Brenner joined the MRC laborotory in

PRICE Prices do not include 2% Government



Surrey 'keeps arts off campus'

The University of Surrey has come under fite for excluding the aris from the campus. The aris committee hus accused it of leiting this suffer in favour of science and technology.

The committee, made up of staff and students, sold in a recent report that it was false and damaging to assume the technologist's cultural horizous were limited, or that a technological university had no interest beyond its own academic disciplines.

It called upon the university to be neared for the metalle had been disrupted by the student six-in over tuition fees at the end of last term.

It called upon the university by the student six-in over tuition fees at the end of last term.

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It sommances and or texhibitions. This would he a service to the community ood be likely to attract support from our side organizations."

The report has been put before something the aris films, duratical performances and ort exhibitions. This would he a service to the community ood be likely to attract support from our films, duratical performances and ort exhibitions. This would he a service to the community ood be likely to attract support from our films, duratical performances and ort exhibitions. This would he as service to the community ood be likely to attract support from our films, duratical performances and ort exhibitions. This would he as service to the community on all orens of spending, and though everyone was in favour of expanding, and though everyone was in favour or exhaulted.

The report has been put before some university governing the arts, it might not be films, duratical performances and or exhaulted.

The community of the tuniversity provision of the s

"Students have continually osked for classes on site in painting, screen printing, pottery and photo-grophy as well as improved facili-tles for dramo and music."

Accusing the university of neglectuniversities, this deficiency is serious. Facilities for classes in the visual and plastic arts are either rudimentary or non-existent. There is no place where drsma can be

courses.
Mrs Williams said one motter the University Grants Committee was

University Grants Committee was pursuing was a four-year degree courso combining a period of practicel work in industry with academic atudies. There would be further announcements about this shortly. Among other actions being considered was the possibility of more work axperience for teachers in the course of training and induction.

Mr Oakes, minister of state for higher education, in other ex-

higher education, in other exchanges, said that the Schools Council, is cooperation with the TUC and CBI, was mounting a project to pro-

Prospects for multilingual

Urgent discussions on combining languages with engineering and technology studies for businessmen have been going on between the Department of Education and Science and the Business Education Council.

Mrs Williams, the Secretary of State for Education and Science what proportion of the structure of industry for schools and colleges.

Mr Christopher Price (Lob, Lewisham West) osked the Secretary of State what proportion of polytechnics total income was made and by income from student fees in each year from 1970 to date and what proportion of universities.

businessmen improve

ing the inversines are reconsidering their image.

Many lecturers believe tha scientific image of the former colleges of advonced technology which, like Surrey, received their university status relatively recently, makes their unattractive to potential students.
The arts committee report was

received with complete approval hy Senate, but its proposals for improved arts facilities, involving a grant of £9,400 were referred to the estimates committee for con-

mean total recurrent general income, and has been bosed on the totals of income and expenditure accounts to the sectors after allowing for certale self-balancing items.

The arts committee recommended that uno of the lecture thentres he converted into n small studio theatre for performances and droma tesching, and o ruom in the teach-ing block be converted into an exhibition gallery for paintings and Dr llans Heimler, o coopted meni-

ber of the committee, was partieu-larly concerned about the music facilities. In a letter to the com-mittee, he said the neoustics of the Great Hall were very unsatisfactory. "Performances are often rained by the noise of ruin on the toof", he said.

Is no place where drama can be performed properly, concerts take ploce in very magnitable conditions, and there is no purpose-built exhibition gallery."

The report also crinicized the marked lock of coordination and organization of artistic activities which were often frustrated by minor obstacles.

Sideration.

It is not known how many of the proposals will be financially occeptable. The staff and students concerned are still writing for the report on the estimates.

Mr Michsel Bradbecr, o university sity spokesanan, said the estimates committee is due to meet in May, but n decision is ing to discuss the proposals, us unlikely to be taken before June.



St. Luke's College, Exeter : in-service future still not elest.

Fierce country v city passions aroused

by Judith Judil

Collegee of education ore scottered thinly over the great stretch of countryside from Cheltenham to Lamil's End, and the degree of fervour and patriotism they attract is correspondingly fierce.

In a rural town such as Exmouth, the proposed closure of Raile College is considered an attack on the economy and culture of the whole community. The organicant there are about the rights of the country ogniust the city, the need for higher education in a place which olready feels deprived. Why, argue Roile's supporters, should difficult and doubtful mergers he ollowed elsewhere while thoir own successful correspondingly fierce.

In a rural town such as Exmouth, the proposed closure of Ralle College is considered an attack on the economy and culture of the whole community. The organization there are about the rights of the country ognitist the city, the need for higher education in a place which olready feels deprived. Why, argue Roile'e supporters, ahould difficult and doubtful mergers he ollowed elsewhere while thoir own successful institution is destroyed?

If Rolla closes, it may be possible to astablish some kind of community college—but it may not. Whatever happens, the problem is roal and should not be ewopt osidu by the prevailing wind of reorganization which fovours town rather than country, large rather than small, the diversified rather than the mululy monotechnic lustitutions.

Even so, some mainly monotechnic institutions have escaped the uxc, and Rolle's supporters must have a real chance of making the minister change her mind.

The collogo can point to a very high first chalco preference, a comparatively high number of two A levol entrants, and, perhaps most importantly, the fact that it is o mojor emphior of teochera of music, a shortage aubiact.

Mr J. G. Owen, Devou's Chiof Education Officer, is so concerned that the minister has got it wrong that he has suggested there must be a hidden set of criteria. The DES has denled this, but Mr Owau is still not entirely convinced. "It is a lively college under excellent lendership with a real place in the life of the community", he says.

college under excellent lendership with a real place in the life of the community, he says.

Hidden criteria apart, the most likaly reason for Rolle's inclusion on the list of proposed ciosures is geography. Thore are two colleges in Devon. The other one, St Luke's, a voluntary collage, has just become part of Exeter University. Mr Owen says that this is not the same as having a maintained collage, and no one, is vet sure how in-service training will be worked out with the university, particularly with the university, particularly with the present chees in the regional service training in future of the institute of the institut

• Initial teacher training should in the south west in 1981 cease at Rolle College and the be: Camborne Outpost. Provision in the Gloucester- Educotion

shire Institute of Higher Educa- Bristoi Polytechnic tion should be reduced to 500 Bristot Polytecand places; teacher education in Dorset Institute of Higher home economics at the Glouces-tershire College chould be dis-continued; and St Mary's and St Paul's colleges should be covaled.

St Luke's Exeter (in Exeter University)

St Mark and St John If these proposals are hiple Gloucestershire Institute of mented teacher training places Higher Education

THE TIMES HIGHER ERDICATION SUPPLEMENT 29.4.77

Through a

lark, glassly

I have spent the fast three weeks rying to read Sir William Hayter's biography of W. A. Spooner'. Spooner, you may recall, gare his name to that peculiar verbal trunsposition, the "spoonerism", and one will not of the author of The Histories of Tacitus and Bishop Butler. A strange choice of reading, perhaps, but then the only alternolives at bond during the Easter vacation wero a new textbook by an experimental psychologist on the role of lambey in small groups, Alice Through the One-Way Mirror, and a disturbingly fat PhD thesis with the taxtoless title of Farewell to Arms: A Phenomenological Struly of Partial Disablement.)

I cannot in all honesty say that found it executive rings that a support of the original in order to "pec woosibly").

I cannot in all honesty say that found it exactly riveting the I found it exactly riveting the Spooner blography, that is I, but it would not really be fair to blame Sir William for that; there just was not much that the author of Russia and the Wurld (and himself Warden of New College from 1958 to 1976) could have done with such a tedious subject. For ultimagh Sir William turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative william turns up a mamber of testimonials to Spooner's oddinistrative will be, for example, that Spuoner was really a practical joker of monumental proportions who deliborately lived a life su total proportion will be driven to distinction? Well, there is just county exponent of metaphases (or spooner's man state there's Succeeding over for ut least half the best colleges of the man to footoole if he spooner's man state there's Succeeding over for ut least half the best colleges of the man to footoole if he spooner's and incident that any future biographer would be driven to distinct or the footoole of the proportion of the pope only if you form a few running hypotheses or associations of your eyes in the general direction of the pope only if you form a few running hypotheses or associations of your eyes in the general direction of the pope only if you form a few running hypotheses or associations of your eyes in the general direction of the pope only if you form a few running hypotheses or associations of your eyes in the general direction of the pope only if you can keep your eyes in the general direction of the proponer's life nite and the otherwise the direction of the proponer's life niteration of the proponer's life niteratio merted more than o toothole if he had not been the principal contemporary exponent of metaphases (ur "spoonerisms" as they have more here recordstened).

Actually Hayter tries to play down this element; only a meagre mine Spaceer: A Biography, by William Bayter, W. H. Allen, 14.25.

Don's diary

stiddenly nhandous the whole enter-prise on the grounds that he can no longer remoraber what happened to him at rectain thires. The parts that do exist are packed with rery long parentheses about notable academic, political and literary lightes. Sounds promising . . . Ion unfortunately, as Hayter wearily al-mits (with Sponner chuckling from his grave 71 these are all "accounts of the personalities and achieve-ments of intividuals whose faute has not endured". suddenly abandous the whole enternot endured". Then there is the delightful case

of the second quarto notebook. This, ulthough concerned with part of Spinner's life, bears no relation-ship whatsoever to any other lib-graphical material bin nevertheless begins 1" rather bafflingly" as negus 1" rather bafflingly" as Hayter observes with growing irrita-tion) with the supremely imappropri-ate phrase "On the other hand". This really does suggest the presence of a master juker, as does the following delirious account of the only recorded instance of a physical spoonerism, A. J. Toynhee tells the story:

"The ucutal spoonerism was wit-

nessed by my mother's old friend Eleonor Jourdain. At a dinner porty in Oxford, she sow Dr Spaoner porty in Oxford, she sow Dr Spaoner upset a solt-cellar and then reach far a deconter of claret. He then poured cloret on the salt, drop by drop, till he hod produced the little purple mound which would hove been the end-product if he had spilled cloret on the tableeloth and had then cast a heap of salt on the pool to absorb it."

Ilin if a vision of Spaoner manipulating future biographers does not

ating future biographers does not pulte hold the attention through the drearier sections, it belos if you know that he was a tiny old olbina with the sections. know that he was a tiny old olblan with gleandag false teeth; you can always unout a different tack ond speculate about the existence of contemporary figures whose surnames—like Sponner's—might odd o new word to the English language to join that illustrious group of samiwich, wellington, escaligan, boycott, lynch, skiffle und bowdler.

Shall be nameless?

No neademie contenders leop to mind, hur then I have stopped going For a start there's Spooner's non-unfinished mutabing raphy. An ob-vious source of information for the biographer, you might think. But the deviaus Spooner has made mut-ters more complicated. He leaves out large sections of his life, then

Wellington and his boots (left). Spooner and his 'Isms'.

form of ublique political judgment, jumping to the left suddenly after upon has been slowly moving to the right for some time (or vice vorsa).

Iliayter's evidence that Spooner lism in his life no more dispels the proctlee unment ofter him that would elimin news about Cuptain Boycort's lifelong poeifism of procede unment ofter him that would elimin news about Cuptain Boycort's lifelong poeifism of procede unment ofter him that would elimin news about Cuptain Boycort's lifelong poeifism of now words from acodemic circles is due to a certain lack of promotion. It is surprising, for example, it that we have managed to muddlo through for so long without resorting to that most potentially useful of verbs "to eysenck". This cauld refer quite straightforwardly to the pructice of holding thur facts are more luportnatt than theories, as, for example, in the sentence: "The experimental psychologist successfully eysencked his way through another lecture on the nature of the canotions", or more simply: "Forget about the theories and leg the fuets eysenck for themselves."

Some uf any colleagues also tell me that they would welcome the fuets eysenck for themselves."

Some uf any colleagues also tell me that they would welcome the fuets eysenck for themselves."

Some uf any colleagues also tell me that they would welcome the fuets eysenck for themselves."

Some uf any colleagues also tell me that they would welcome the name "althusser" as the name for heavy knitted gurment worn over the lead in such a way as to simultuneusly compleate and distort one's vlow of the nutside world, us, for example, the fuets of th

Adult literacy: a success



Bryan Davies

The Adult Literacy Movement ation of Settlements moved swiftly. A meeting was emissed of the Compalian country from enthusiasts working for the British Association of Settlements, a Landon charity catering for the work of the programme with the programme work of the wor

uniform school reading books.

In Blrmingham too, and Liverpaol, important lultiatives had been taken in the field of adult literacy.
Enterprise in ecveral adult centrea in Birminghom hod won firm local authorities for the authority support for tuturs and classes. In Liverpool research was undertaken to analyse the extent of Illiteracy in the city and in the cities it was incylinally Leleestershire, demonstrating its remarkable and exciting copocity to dovelop fresh initiatives in the community colorest, which first provided of the context.

My own opportunity to make of minur contribution to this developing campaign was greatly enhanced by my olection to Porlisancet in my own locality, our committee in the programmo.

In Blrmingham too, and Liverpool, and Liverpool, and Liverpool is continued in the programmo.

The operation was essentially one of pump-priming, it was to establish or resource agency that could channel fundant local authorities for the centre should transfer its work the centre should t

The library of the small market by my olection to Porllament in February, 1974. It addition to the general run of policy commitments and pledges contained in my election address was a more private obligation—a promise to my slater, who was organizing the Leicester-shire actionary. Prido thomselves. When it of conjecture.

Not that my thrae children in belight showed in every foco as the like printed page in the page in the printed page in the

highly effective, yet it lacks the mornle-sustaining quolities of education in a group. The television programmes reduce the isolotion of lack dividual study for those who have entered the scheme: mora important deserves every credit for its support for the Adult Literacy Movement. Novertheless there is a donger that this support out in antly they form a major bosis of rethe Government's embarrassment

ing campaign was greatly enhanced by my election tu Porllament in Februory, 1974. In addition to the general run of policy commitments and pledges contained in my election address was a more private obligation—a promise to my sister, who was organizing the Leiestershire acheme, that I would press for a notional initiative in this area of odult education.

I cogorly joined Chris Price, newly elected for Lewisham West, whose previous work as an education of journalist bad brought him into close entuact with the literary issue, in spansorship of a Privote Member's Bill to establish an adult literacy resource centre supported by Government funda. The Bill rapresented little more than a publicity ploy in thot crowded ond heectic sessint that was rightly deficied by every MP, as on interlude hetween elections. Nevertheless, it put the Issue on the parliamentary map.

Our frieuds of the British Associonly the surface of the problem has been scretched; more than 10 times that number are in need of help. Of equal importance is the need to capitalize upon the loterost which has been awakened in coluit education in a wider oudience. Large numbers of thosa with bove regarded adult education es offering little relevance to thom, who have looked upon its courses as catering princarily for those with off-beat holpibles, keen spurping interests or with a good educational beckground, are becoming classes can meet their needs.

The obstaclos of course remain

multy indequate fig leaf to cover the Government's embarrasament over the Russell report on adult oducational initiodyes, the future of the literacy programme lies clearly lin the further education service. Bill Deverous, Director of the Adult provide me droofful indication of Literacy Resource Centre, is ubsolutely right when ha orguee that the centre should transfer its work when its three-year period is com-

In the not too distant future, the fourth television channel could offer further opportunitias for schemes modelled on adult literacy. The most obvious field is the need to coter for the needs of ethnic and cultural minorities. But there is also the fact that our walfers state annually votas substantial sums to provide means of support for underprivileged groups.

The statistics of take up on bene-fit, however, show the same dis-tressing tendency for lorga num-bars of those in need to foll to obtain what is their dua. Of course, oue solution is to make more bene-fits automatic but make more benefits automatic, but au increasingly complax society demands an increasing leval of understanding on the part of fits citizens.

part of its citizens.

Adult education needs to respond to the foct which escapes the Bleck Paper apologists—that the basic skill lovel nocessary merely to live edequately in our society rises continuolly. These problems are not resolveble within ou educational framayork which rogards 11 years of compulsory education as the formal entitlement: nor one which expects sections of the population to survive on skills inculceted 20 or 30 years ago.

The litarocy scheme identifies many of the successful components of a model for developing adult education. It would be a tranedy
if the rest of us, as well as the committed students, falled to learn
lessons from this scheme.

Bryon Davies is Lobour MP for Enfield North



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Universities told to stay out of politics

Universities may engaga in social reform, but must stop short of corporate political involvement, Professor Pater Froggatt, the vice-chancellor of Queen's University, Belfast,

Council.

Mrs Williams, the Secretary of State for Education and Science, replying to questions in the Commons, said that already there wore five pilot schemes linking universities with associated firms and another three universities would shortly announce their own proposals. This was a rapid development, considering that the matter only slurted a few months ago.

Mr Nell Marten (Baubury, C) wondered what encouragement graduotes were given to go out into the world for, say, three years, before going on to postgraduato courses. Professor Froggatt, who was guest epaakor at the annual confar-ence of the Ulster Teuebers' Union lu Newcastle, co Down, sold that tha univorsity hod been an agent for stability ond maintenance of the status quo. "Tho responsibility for maintaining the cultural heritoge, far adding to the existing body of knowledge, oven for prepuring for employment—all this is essentially conservative. tlally conservative.

"In preparing people for employment one is occepting the realities of the social structure and proparing them for a pisce in it rother thou for monning the borricodas", he said.

A core of university mambers vigarously realst the idea of a university position on ony subject.
"Direct university intervantion in "Dreet university intervantion in ecclety cuts across not only professional independence and ocadomic style, but also a hard-won social compoct that gives freedom and autonomy to the university in return for institutional ceutrolity."

Professor Froggatt argued that vigorous debate on academic theory is the life-blood of critical research.

"Debate on the distribution of

is the life-blood of critical research.

"Debate on the distribution of power and wealth or the rights and wrongs of a political issue is the anemy of such research except for the specialiet in aconomic or political theory."

The university could eerve and reform society as a by-product of normal university work, for example by arrunging scholarships for South Africon refugees or by oparating posidva discrimination in its selection system, he said.

Bureau for Handicapped Students praised

The annual cooferance of the Asso-clation of Blind and Partially-Sighted Teochars and Students, bald receatly at Manebester Polytechnic, acclaimed the work of the National Burcou for Handleappod Students. It called on the Government to commit itself at ouce to increased and continuing financial support for the bureau.

Knitwear, Bristol fashion

Knitwear, Difficul 128mon

Knitwear, millinery and shoe design
of o subjects that may be studied
as part of a new BA degree course
in fashim starting at Bristol Polytechnic in September.

The course will aim to give
students knowledge of the techniques and methods of the industry
and encourage them in their own
creative work.

Pani's coileges should be omalga-mated on St Mary's alte.

in the north of the tegica two great centres of teachers, cution of Bristol and Bath ten, untouched, satisfying the spirit of built foctions in Avon Co.

Chancil.

They are comparatively of impether, but have their obiginations, is in the polytechnic, which is in the polytechnic, which is in the polytechnic, which is in the polytechnic which is in Anglican color than the polytechnic been acquired by the polytechnic. Both Callege of Higher Education, which will hove the argument that the result of a merger planed the days before shotgum manufacement the rule.

The victim is the big Clouds.

The victim is the big Clouds, shice Institute of Higher Educate, which, it is proposed, should be the control of the control o which, it is proposed, should its 1,000 places cut ta 500. Its 1,000 places cut ta 500. Instituto muist bo tha most subminimerger project in the country for Cheitcoham colleges bave mer with two in Glaucester sight minimum. The instituta include in Anglican colleges, one maintain college, the North Cloucentrish College of Technology and its Gloucestershira College of Art picture.

university, particularly with the present choos in the regional cool dinetion of auch training. Still, tho teacher training places exist and Corawall and Dorset hove only one college each.

If Rollo was saved, the future of the Cornwall college, St Merk ond St John, might be called into ques-

Bath Coilege of Higher

NOTICE BOARD

sor of chemistry at Massachuseus Insd-tute of Technology, has been appointed to the Waynfiele professorship of chem-istry at Oxford University from Octuber 1, 1978.

Appointments: Heelth and Safety Executive

Universities

Reader: Dr A. D. Russelt (pliarmacy); Dr R. T. Wsters (physics, electronics and electrical engineering), Senior lecturer: Dr O. J. Sd.kler (applied biology); Or H. C. Foor larpfled psychology); S. H. Cox (architecture); B. W. Stewart (law); T. J. Williams (mechanical engineering and engineering production); D. K. Luscomhe (pharmacy), Lecturer: R. A. Earlam (optometry).

appointed to Loughborough University's neivly established chair in English, ito will become head of the department of English and drama (at present a department within Loughborough College of Education) when the college and university amaigamate aext August.

By Louis Collen, senior lecturer in the social psychology of education at Bradford University, has been oppointed to u chair to education at Loughborough University.

M. J. Brutos, head of the school of planning and lendsrape, Blundingian Polytechnic, has been appointed to the school of planning and lendsrape, Blundingian Polytechnic, has been appointed to the school of planning and lendsrape, Blundingian Polytechnic, has been appointed to the school of planning and lendsrape, Blundingian Polytechnic, has been appointed to will take up his appointment on September 1, 1977.

Dr A. R. Lipman, reader in the Welsh School of Polytechnic, has been appointed to will take up his appointment on September 1, 1977.

Dr A. R. Lipman, reader in the Welsh School of planning and lendsrape, Blundingian Polytechnic, has been appointed to will take up his appointment on September 1, 1977.

Dr A. R. Lipman, reader in the Welsh School of Polytechnic, has been appointed professor and head of department of town planning at The University of Wales institute of Science and Technology, ile will take up his appointment on September 1, 1977.

Dr A. R. Lipman, reader in the Welsh School of Polytechnic, has been appointed to will take up his appointment on September 1, 1977.

Dr A. R. Lipman, reader in the Welsh School of the Science and Technology, ile will take up his appointment on September 1, 1977.

Dr A. R. Lipman, reader in the Welsh School of the Science and Technology, ile will take up his appointment on September 1, 1977. protessor of physical chemistry at Leeds University, has recently been appointed a fellow.

or Surette Gauvain, denuty director of medical services. Emptoyment Medical Advisory Service, is to become parttime consultant advisor on medical training and related medical profession the Director of the Health and Safety Executive, Dr Keunedt Durran, from May, 1977.

Department of Education and

Forthcoming events

Theues Phlytechnic, Woolwich, Details from the assistant registrar.

"The Vocalinnal Preparadon of Ynung People", a study conference, will he held from May 8 to May 14 at the Further Education Staff College, Coombe Lodge, Blagdon, Bristol IISS 6RG, It alms to explore ways in which schools and colleges con expand provision for the 16 to 19 uge group into kinds of activity which may be regarded as "non-teaditional". Applications to the Registrar and Clerk to the Governors ar the obove address.

"Colus and Archaenlogy", a weekend conference organized by the department

UWIST.

Newnbam College, Cancbridga University; Sir John Gray, FRS, secretary, Medical Research Council; Sir William Heoderson, FRS, secretary, Agricultural Research Council; Dr M. W. Holdgate, Olrector-General of Research, Oepartment of the Environment; Sir Peter Kent, FRS, chairman, Natural Environment Research Council; Sit Jenan Maddock, CB, OBE, FRS, chief scientist, Department of Industry; Dr E. W. Parkes, vice-chancelor, The Chy University; Sir Charles Perelra, FRS, chief scientist, Ministry of Agriculture, Fisheries and Fnod; Mr D. Rubinson, rhairman, Social Sciance Research Council; Professor T. R. E. Southwood, professor of zoology and applied entimology, University of London; Dr A. Spinks, director of research, ICI Lid; Dr W. C. Marshell, CBE, FRS (ABRC assessor), Ministry of Ocience; Mr A. S. Gam (ABRC secretary), Department of Education and Science.

Department of Education and Science. sion for the 16 to 19 oge group into kinds of activity which may be regarded as "non-tealtional". Applications to the Registrar and Clerk to the Governors ar the obove address.

"Colus and Archaeology", a weekend conference organized by the department of extra-mural studies of Oxford University, with be held on May 6.8 at Rewley House, 3-7 Wellington Square, Uxford OX1 2IA. The cunference is sultable for anyone interested in the application of numismatics to historical interpretadous. Applications to the Cunrese Secretary, Oxford University department for external sludies, at the above address.

"Build Your Own Computer" is a one

PCL, 35 Marylebone Road, by

A workshop entitled "The Latterparation and Presentation" in the Interparation and Presentation in the Interparation and Presentation in the Interparation of Education, Brunings School of Education, Brunings July 14. Fee: \$2.00. Purple in from: Dr R. J. O. Rutherfeet is sory Service on Teaching Method? University of Birmingham. On date, June 30.

The York Festival and Myster is will be held in York from Just 1 July 4. Applications, programmed details from: The York Festival Cliffice, 1 Museum Street, York 2017.

Open University programmes April 30 to May 6

7.40 People and ergonizalinna: Fort later view 121 11252; prof 51 11.00 11.00 * The nature of control of the property of the property

9.20 • Quan Farum—10. 9.20 • History of Architecture and design 1840-1939: The Dobuja between Van

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6.00 English troom history 1200-1780;
The Geography of Pro-Industrial
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8.22 English Towns (A322) prop 5.

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May 3-5 nt the Coultral Landon. This me, ut those responsible for one of the Education with huilding ance or separately. Fee: 5:5. http://doi.org/10.1001/j.j.com/prints/p

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8.40. The revolutions of 1848; Students
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7.50 - Mass Communication and socialy:
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120823; proc 3).

18.08 · Science Joundation court !

Alternative arranges and results and water arranges and water arranges and results are arranged as a re

(A303 (Prop of the Control of the C

Literary treasures in radio's 'secret workshop'

The status of radio in this country was nearly summed up at a recent emitterence in Durcham, while this dash of one packer clutching a bounder of Lords Mickeice plays and other art forms. This process the part of the country was poor that its remit had to be brone, there is not be understood by each of the country was not to be understood by each of the country wa

Why Scandinavia is an area worthy of academic attention.

Ways to increase comperation between liritish universities affering Scandinovien studies simulal be actively explored, a leading inter-valversity committee of specialists in this field, hos recommended.

In a concise yet outspaken report on the present state of Scandinavian studies in the United Kingdom, the committee has urged on increase in student admissions, retinualization of

summer a has urged on increase in studen admissions, rotinnulization of provision including the possible cloude of two Scandinuvian studies departments at Scottish universities, and the vigorous recruitment of British-born academies to the teoching posts available.

The Iotoc-University Committee in Scandinaviau studies, set up in 1975, also calls for the creation of the cre idal appointments between university departments, the shuring of lackides, the use of peripitetic teachers and the introduction of sinder bussing".

Shifts in Europe's economic bolance : a giant oil rig being built in Norway.

occepted with acknowledgment that his problems were special, the report points out. But tuday the intensity of the finencial stringency had ended this situation.

"If the present narianni intake into Scondinovion studies receives at the figure of 50 to 60 and if the preacut total of seven to alghi universities offering homours or joint honours courses in Scaminavion studies is to remoin, it is difficult to see how the individual departments can ever conform to current mailts can ever conform to current norms while at the same time maintelning an acceptable range of spread within their individu couraes of study," it warns.

courses of study," It warns.

It adds there should now be some degree of rationalization between university departments in south-east England and Scotland. The departments offering Scandinavian studies at the universities of London, Cambridge and East Anglia were within easy reach and there should be official support, for more systematic representation distonguishin with the aim of improving academic effectiveness.

Shifts in Europe's economic bolance: a giant oil rig being built in Nerway.

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Shifts in Europe's economic bolance: a giant oil rig being calculated and in the same and the shift of the problems of the





by Patricia Santinelli

How to train doctors and spare patients

by Fergus Gleeson

Simulation in medical education is nar new. A number of medical school departated is nave been using could also become a fearly that documents of many years, in particular toors in the not tao distant future as lar anatomy departments where it their fittiess to continue ta practice of the more effectively displayed using various forms of medical audit are

The field of simulation, however, has bruadened considerably in recent years with the introduction of newer methods and ithus us well more technically advanced plets. Although there is no clear models. Although there is no clear to be produced. In some of these definition of the concept of simulation in medical education, it is generally understood by most reachers to be on magnificate that initiate life or to be on magnificated by most reachers. ome aspect al reality to varying a patient's arm while the "skin'

There are a number of fairly well marked improvement. defined reasons why simulation is used in medicine. First, it offers an appartunity in examine a "patient" A wide range of models of varying value ore now available to medical partunity in examine a "patient" call schools, for example, eye, ear, appartunity to examine a "patient" cal schools, for example, eye, ear, whithout discomfort or embarrassiment to either the patient or the and mule pelvis for rectal examinastudent. Secandly it allows students to be initially trained to new skills, and to galu a certain degree of com-petence in a particular skill before they came in contact with the real patient.

Thirdly, fullowing such initial training, simulation allows students, or indeed already qualified doctors, an opportunity to practice skills not frequently required of certain groups of ductors but which when required can save life. One of the most frequently used simulators in this respect is a model of the head and neck that allows the inser-

It is niways hard to engender serious critical debate on the rate of

professions in sociaty. Members at those profassians, relying on the mystique that surrounds their activi-tias, will usually fob off crities from

autsida by cialming that they do not reelly understand what the prafes-

simulation. This is a standard proceis nar new. A number of medical three used by sirline companies and school departateats have been using could also become a reality far docbeing reviewed.

Three-dimensional models have been used in anarousy departments for years. Recent improvements in the production uncerials used now allow the most lifelike of models on this arm also represents a

tion. An added feature in many of these models is that a number of related abnormalities can be in-serted into them. Such an option allows the teucher to assess students' examining techniques us well as their power of observation and diagnosis

The reproduction of auditory stimuli such as recordings af actual heari sounds and breath sounds have been available for a nomber of years but have not been papular analyl because thay offered na advantage over listening in the heart or lungs of a real patient.

and neck that allows the insertion of an airway or endotracleal tube in an unconscious patient.

Finally, assessment, either selfor by the student himself or by the teacher, with immediate feedback, can be carried out using the insertion of true patient.

Identifying such sounds can be carried out using the programme to its conclusion. If ha makes an inoppropriate decision he is requested to assessment by the student himself or by the teacher, with immediate patient's chest. In addition a number of different heart sounds can be supported.

Among the programme to its conclusion. If ha makes an inoppropriate decision he is requested to try agoin.

Among the programme to its conclusion. If ha makes an inoppropriate decision he is requested to try agoin.

Among the programme to its conclusion. If ha makes an inoppropriate decision he is requested to try agoin.

Among the programmes used by students in the University of Glas-

heard when listening to the heart

To get over this problem simulayou to listen to one sound only at a time and having heard it the athers can he gradually fuded in ta givo die controsite sound.

Paper and peocil simulation is often referred in as patient management problems (PMP). The student is initially giren the written history of a patient which is then fol-lowed up by a series of branched problems designed so that he has to make decisions from a number of alternatives in each case, for example, requesting further information in the hisrory of the nations or requesting a particular inboratory

In the format devised by McGulre and Sulomon at the University af Illinois College of Medicine, the decision is underly erasing an apaque twentay. Other methods of recarding a decision are also available and further developments in this area con be expected.

The computer has non rules in the field of simulation. First there is the extension of the paper ond

gow are emergency patient mnunge-ment prablems and during these the ment prablems and during these the "nurmal" decision making pracess is constantly interrupted by the rapid developments in the patient's condition which are conveyed at the munitar sa that fast alternative the munitar sa that fast alternative pracess. The patients is reparticularly the patients in the patients who can be conducted to patients.

the munitar sa that fast alternative decisions have to be made.

The second role of the computer is in the use af automated rather which are extensions of the simulation models already described. The original and hest-known is SIM I, a computer-controlled simulated patient or manikin developed by

There is little gridgent. patient or manikin developed by Abrahamson and Densen in the Uni-versity of Southern California Medical School.

This simulated patient is the result of enoperation between the urens of medicine, education, engineering and computer science. Tho "patient" looks like a living per-sun and "breathes" with its chest null philomen, has carnid and temodral pulses, synchronized with an annible hearr bear and can be renti-lated by an anaesthetic bag and musk or through an endotrached airway. It also responds appropriately to various anaesthetic gases and drugs and "dies" if treated in-

appropriately.

Further additional extras have been added to later models. Howerer, the cast of such robuts is pro-hibitive and consequently their arailability is extremely limited.

Putient interviewing or p

There is little evidence de ntium is mure or less effective ather reaching techniques. n large number of medical and ure note using some type of the creation of the British Library in 1973 tion and many doctors end the technique for the ingle and bibliographic sarvices of the unior UK have found some aspec of the ingle and bibliographic sarvices of the unior UK have found some aspect of the ingle and bibliographic sarvices of the unior UK have found some aspect of the ingle and bibliographic sarvices of the unior UK have found in their own had bibliographic sarvices of the unior UK have found to the British Library Act 1972.

There are limitations to the British Library Act 1972.

In brought together the British Museum library, the National Reference Library of Science and Invention, the National Central Library which provided lending services for printe circumstances, that is a bunanitles and social sciences, the

printer in However, is the bunantites and social sciences, the the real life situation is said National Lending Library for Science and pussible, the technique will rechnology and the British National Biblinthe real life situation is said. Technology and the British pussible, the technique with Franks.

Increasingly used in medical The 1972 Act specified that the British tion particularly as more new Library should be a comprehensive collection become aware of its some new Library should be a comprehensive collection become aware of its some new Library should be a comprehensive collection become aware of its some new Library should be a comprehensive collection become aware of its some new Library should be a comprehensive whether primed or

The author is in the land Medicul Education at he of Dundee.



Two buildings that support the country

United front faces problems

of cost and conservation

Science and

rassarch and dovelop-lists, technologists and the dem. The facilities are also merchants to information officers, librarians, abstractors

compile selected on speciolized selen-

rechnological topics.

Tary is always developing a 1973 there has been a waids. Commercial enterhas for example, increesed iteal trada literature and liher with other library patricularly the Board of Library at Blaomskury, at the strengthaling their loks other patent libraries of many, and the city libraries pool, Eirmingham and New-

the library, the board has created an advisory cauncil sail five advisory committees which serve the reference, lending, hibliographic and research and development areas. The cammittees have mer to causider prob-

To ausure consultation with the users of

The cannittees have mer to causider prob-lems such as conservation, accommodation, catalagulus, improvement of services to renders, rearrungement of the etdlection, security, au-line computerized information services and technical trade literature, ocquisition policy, pricing policy, back-up libraries and loog-term funding of informa-tion research.

The British Library

The main prablems fucing the library at the moment are causerration, space and the use of microfilm to offer part of the solution

Both the reference and lending divisions are suffering from lack of space which in the case of the former is nalikely to be resolved until the mid-1980s and only pravided builting starts on their new site at Euston in

Conservation is also a major problem far tha reference divisian which has recently put £250,000 aside to deal with over and million volumes in a bad state af repair.



Reference from Asia to postage

The reference division of the British Library is mainly housed in the British Museum at Bloomsbury. The division consists of four departments: printed books, onanuscripts, oriental manascripts and the science reference library.

The department of printed books is the largest of the four consisting of about 10 million items which it acquires at the rate of one million a year. It contains printed books and periodicals in all languages except those of Asla. This inclinies the early and rere books collection; tha archival collection of British publications built up from the Copyright Act and the oatlanel collection of foreign litrarature.

It elso comprises the Official Publications, the Map, the Newspaper and postage stamps.

The Newspaper Library as Collections of maste scores and postage.

tamps.
Tha Newspaper Library at Colin dala contains newspaper Library at Colindala contains newspapers published after 1800 from all countries and also British provincisi papers published before that year.

Tha depurtment of oriental managements and purchased by the conduction of the contains and the contains a contains a

The depurtment of oriental manuscripts and printed books covers literature of the ariantal world and Narth Africa totalling 500,000 items; it is particularly rich in Hebrew, Medieval European, Arabic, Persian and Inthe-Persian manuscripts. sian manoscripus. The Chluese library includes the Stein collection BL to provide this majerial.

There are 5,300 registered horrowers comprising special libraries, academic institutions, public libraries and overseas institutions. United Kingdam borowers ore charged 60p regardless of the type of request but averseas fees are higher.

Library includes the Steio collection of mora than 6,000 manuscripts and printed baoks. There is also an outstanding callertian of Jepanese blockprinted books an manuscripts, attiquarian backs and a large library of modern backs from the least.

The functions of the reference division are to callert pat only all

division are to collect nat only all British books and important British British books and important British manuscripts and papers, but also as much as possible of the world's important printed material and manuscripts of fareign origin in cortain specialist fields. Since 1975 £1,155,989 has been spent on the purchose of these itoms.

Ifoldings of the library taday total ebunt 28 million items. These include books, parcels, microfilm reels, manuscripts, nonographs and pamphlets, patent specifications and current sorbuls. New acquisitions are in the region of twa milioned.

tions are in the region of two million a year.

The division then makes its material available to readers, two-thirds of whom are ecademies. A problem in providing this service is inck of space. Over half the hooks are in store at the Wholwick Arsenel and this sometimes results in long delays for users af the library. At the present rete of growth the library will by 1980 have more books at Woolwich than in central London.

tions sro in the region of two mili-

The nucleus of the division is the former British National Bibliography ond it cuntinues the BNB functions of producing a current listing of all British publications and developing to computer-based system for storiog bibliographic information.

Also transfarred to the division with the BNB in 1974 wormed the British Catalogue of Music, the British Catalogue of Music, the British Education Iodex, "Books in British Catalogue of Music, the British Education Iodex, "Books in British Catalogue of Music, the British Union Catalogue for Periodicals (BUCOP). The Copyright Raceipt ish Union Catalogue for Periodicals (BUCOP). The Copyright Raceipt ish Union Catalogue for Periodicals (BUCOP). The Copyright Raceipt office and the UK National Serials Data Ceotre baya elso been incorporeted into the division.

Within the library the bibliographic depoalt.

The introduction of a Cataloguing in publication and developing to provide advence information, professionally compiled softward will be feed books will have a double effect. First BNB will be more up to date thoreby serving librariaes with need advence information, professionally compiled to provide advence information, professionally compiled to provide advence information, professionally compiled to provide advence information, professionally compiled books will have a double effect. First BNB will be more up to date thoreby serving librariaes with need advence information, professionally compiled to provide advence inf

Library Automated Information Service) will become operational this summer. United Kingdom libraries will be linked by on-line

R and D gets triple role

The Research and Devalopment
Department took over most of the
functions of the Office and Scientific and Technical Information
(OSTD) which were transferred
from the Department of Education
and Science to the British Library

in 1974. The deportment promotes and relating to library and information operations in ell aubject finids. When it became pert of the British Library, R and D began to luclude some of the bumantics subjects. librarles will be linked by on-line facilities and will bave access to around one million records. Libraries will also be able to order records from the files and add their own cataloguing data.

"So instead of thinking of a cotionol centre, faeding records and services into the community, the services into the community.

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recently, the Manopolles Commission criticized certain restrictive practices, and the rules against udvertising by salielters. Curronly, the Royal Commission on Legal Services is praviding the oppartuoity for a fundamental reappraisal of the work of the legal profession.

Despite these developments, it is not likely that radical revisions in professional attitudes and work parion does.

There are, hawever, a few sigds that things might be changing. The old Prices and Incomes Board took a number of sceptical looks at solleitors' remuneration.

Despite these developments, the not likely that radical revisions in professional stilludes and work patterns will occur unless the public an improvement of sceptical looks at solleitors' remuneration.

Marc

Outside eyes help us understand cloisters of the law

also broodly defands the profession, but he does recogoize that it is under coosidarable ottack and that some basic changes, porticularly in legal education, are needed.

More direct criticism is contained in the contributions from Lord Gifford, head of "Altarnative Gliford, head of Altarnative Chambers" recently sat up outside the confines of the Temple, by one of the barristers who works there, and by Professor Michael Zander, from the London School of Reconcilles.

Economics.

By mans of careful aditing and fast cross-cutting, a range of opinosing views ebout the work of the Bar ara presented, not in any seosationalised form, but in e vary meesured; elmost uoder etated way.

Answers are not provided; viewers are left to draw their own conclusions. But controvarsiel issues are raised sensibly and that has happened all too raraly in the past.

One axample is the cloar division

quired educational qualifications to go on to the Bar. This may be right, though many would strongly ileny that cloud hand would strongly ileny that clind, but is in ony case largely irrelevant if educational argely irrelevant if educational well-like the chief of the construction of the only critarion for being admitted to the Bar.

Thare are also interesting livergencies of opinion about the role of harristers' elerks. There is critical of the narrowness of professional legal education, and of the inability of most barristers in do

alongsida bland accaunts from the heeds of "established" chambers of how they choose new pupils and tenants. They make it quite clear that family background and contacts, and what is rather auphemis-tically described as an "ability to fit in", are still vital factors affect-ing aelection,

Part One of the film is the boom shown, Part Two will be on Many and Two will be on Many and the boom will be on the boom on May 8 and repeated The outher is lecturer in Lundon School of Econo

FREE PREVIEW OF A.Y PHON Statistics, Comput Operational Research Fire a discriptive broken park previous form send the PRISMATRON PRODUCTION 14 Crickbarned Broke Lundon NW2 JET. Phase send me your on

NAME, ORIND

ARDRESS .

ot. The British Library is managed by a bonril

headed by a part-time choirman and n full-time their executive, who is also deputy chairman. There are three divisions, refer-

ance [which includes the Science Reference Library), lending and bibliagraphic services, plus a central administration and a research and development department.

Within the library the bibliographic services division has been responsible for providing a computerized catalogue of the British puterized catalogue of the British printed books and its compation publication the subject index. Since 1975 United Kingdom and foreign machine-readable able to the library community. This mathematically and the first mathematical processing IBM system in the providing as sending records to them."

All CIP entries will be fed into a system, agranym MARC, for machine-readable catalogue of the division on allow the division on lates the providing as sending records to them."

By the early 1980s, the system will be replaced by MERLIN (Mechine Readeble Library Information services will be replaced by MERLIN (Mechine Readeble Library Information) and supplementation of resultary mathematical priority in the division on lates the providing networks and the providing networks and the providing networks and the providing network and the providing networks and the providing network and the providing network and the providing network with a new priority of information services with a promotion of reference and chester, Oxford and Cambridge, as sending records to them."

By the early 1980s, the system will be replaced by MERLIN (Mechine Readeble Library Information) and priority in the division on takes the providing network and the providing networks and the providing networks and the providing of the division of the division of the supplication of research and promotion of reference and Cambridge, as sending records to them."

By the early 1980s, the system will be replaced by MERLIN (Mechine Readeble Library Information services will be replaced by MERLIN (Mechine Readeble Library Information) and supplication of research and promotion of research and promotion of research and promotion of reference and leuting promotion of reference and leuting promotion of reference and promotion of

ootional centre, meaning the services into the community, the future, pettern will be a two-way to asalst in the services. Mr Coward said, "We need to ase that objectives, cecords are coming in from Manchester, Oxford and Cambridge, as sending records to them."

Two of its main objectives are the promotion of reference and lending networks and the provision of BL information services wherever possible. "It has the tri-



In the following edited extract from their Proposal for a New College, published this week, Peter Abbs and Graham Carey argue for radical changes in institutional planning to restore human values to education

Small and democratic would be beautiful

In the higher section of education we have witnessed during the past 10 years the emergence of a new system of giant polytechnics, hugo multi-purpose, unthi-campus institutions, modelled on commercial lusinesses, built noteclingly of concrete slabs and glass, to many ways these educational complexes also represent an organized flight also represent an arganized flight from the delicate tasks and para-foxes which mark true teaching and true learning, a flight into the na-

From the beginning, the pre-From the beginning, the preoccupation of the pulytechnics was
with what is, aignificantly, called
"recruitment". In an attempt to
"recruit" the number of students
advertised itself using a seminarrographic photograph, heading
it with the sexually suggestive caption: "Don't just stand there—Do
something I " Into what depths an
ugliness our higher educational

The student power vanuted in the advertisement would, behind that thick smoke sereen of "liberation" (colour supplement style), seem to reside in little more than the tyrauny of number. We are deeply opposed te such abstract pewor, such ononymous energy; the power wa would uphold is that power, not of opposed and schizeld collectivities—students against stoff, staff against students, its and them—but of collaborative democracy.

damocrecy.

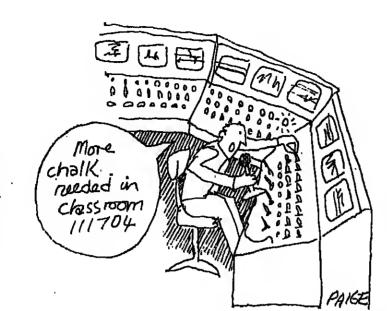
But such domocracy, if it is to be the sensitive ogent for seif-understanding and social transformation, depends absolutely interstaining and social trains formation, dopends absolutely on the daliborate constriction of numbers. Just as there are precisa limits to industrial growth, so there are must be fairly definite limits of size to the maintaining of ganuine and full-blooded democrocy. A college of 200 cevid bo truly deniocratic in its social struc-ture, a collogo of 2,000, let alona

20,000, never.

In a polytechnie consisting of thousands of students, hundreds of touchers with their labouring proletariat of secretarios, cooks, cleanors,

tariat of secretarios, cooks, cleanors, technical assistants, gardeners, perters and so on, it would be impossible to bold a disnified democratic meeting, lot clone a continuous acres of such meetings of which difficulties were freely sired, suggostious discussed, decisions asken. In truth, these desolate glass and concrete institutions have little choice but to be bureaueratic; little choice but to leave the eudent with the dominant impression that, in the eyes of his choiceh place of study, he is little more than a cipher on the computer; little choice but to shetter the ideal unity of knowledge and culture into endlessly dividing and subdividing parts. technical assistants, gardeners, pertyrs and so on, it would be impossible to bold a dignified democratic meeting, let clone a continuoue acries of such meetings of which distinctes were freely sired, suggostions discussed, decisions asken. In truth, these desolate glass and concrete institutions have little choice but to be bureaueraire; little choice but to leave the etudent with the dominant impression that, in the cyos of his choiseh place of the comminant impression that, in the cyos of his choiseh place of attudy, ho is little more undirected by the choice but to shietter the ideal unity of knowledge and entiture into endlessly dividing and subdividing parts.

Furthermore the upkeep of cuch large buildings entails immense costs, costs which are spiralling so rapidly that many local authorities and interesting them, "Already, in so short a time, them," Already, in so short a time, of individual interesting them, "Already, in so short a time, of individual community them, "Already, in so short a time, of individual community in the many local authorities them," Already, in so short a time, one context which includes the many local authorities and the profit and the pro



plines in many sensitive individuals who, for various recoons, had not had the chance of a university training, and who found themselves increasingly languaged in their name of the condition of committed toochers. had the chance of a university transing, and who found thomselves increasingly lanlated in their nwn society. Any form of true intellectual and outtural liberation is not to be underestimated and we would not wish to disparage the means by which it came.

And yet, in defining the purposes of our now college, we find our selves deeply opposed to the general direction taken by the Open University, According to one pros-pectus, it claimed it was:

University, According to one prospectus, it claimed it was:

"open as to places... has no cloisters—s word meaning closed. Hardly even shall we have a campus. By a very happy chonce, our only local habitation will be in the new city that is to bear two of the widestranging names in the listery of English thought, Milton Keynes. But this is only where the tip of our loc touches ground. The rest of the University will be disembedied and airborne. From the start, it will flow ell over the United Kingdom ..."

"Disembedied end airborne", the spurlous press conjures up first and foremest, an image of Batman. More prefoundly, where the Open University sees wirtue in diffusion, we see morit in concentration. In a society so remorselessly propagating the shallow values of hodenistic pleasure and nimiess consumption we defend the nosd for "cloisters", for sheltered spaces, end believe in the making ef an ancieva within which the pursuits of cuiture can be timelessly and lovingly pursued, free from distraction.

If education is essentially in actionality of consciousness, engendefed within a sustained releasing the sheltened releasing the consuments.

disciplinations of the pass, like and the political level of bearing the inner life will continue to be combersome for sensitive life. They hook back to a time of mindless in the original communities of the restrained communities of the restrained communities of the polytechnics counterprit in the original acceptance of the sense of the counterprit in less quantities of the sense of the sense

that, perhaps even in our own life binds, perhaps even in our own life beaution. The life binds of life binds of life binds, perhaps even in our own life binds, perhaps, even life beaution. The life out by Mc Tony Glassbarow expressive unit intellection disciplination in the limitation of industrial training of life out by Mc Tony Glassbarow expressive unit intellection disciplination in the fludings of the resistive in education. Recently-completed research work life in the listing of sandwich, and course education. Recently-completed research work life in the listing of sandwich, and listing of sandwich, and listing of sandwich, and listing of sandwich, and course education. Recently-completed research work life in the listing of sandwich, and listing of sandwich, and listing of sandwich, and course education. Recently-completed research work life in the listing of sandwich, and listing of

were finding to infiltred scenarios, articularte out committed toochera. In that article Knlghts clolmed:

". the problem presented by the traiolog colleges cannot be considered apart from the general state of English culture at the present trace.

Behind the educational system stands the cinema, newspapero, book societies and big business the whole machinery of democracy ond standardizatioo — so that the mion charge against the training colleges is then they do nothing to foster such loterests as their students possess, nothing to encourage on odult sense of responsibility. Their studies leave them perfectly fitted to their environment, perfectly unfitted for the work which they should do."

Over 40 years later this trenchent criticism remoins pertinent, perhops oven more applicable new, with all the "advances" in the olectronic media, that when it was first written.

We ourselves have observed how in the colleges each new batch of students rather passive in allegation.

Breez 1

Time to stop knocking sandwich courses

Alan Daniels suggests that early criticism of sandwich courses must be revised following more recent research

The sandwich course degree has flourished in the technological uni-versities and the polytechnics for versities and the phytochines for the past 10 years. At present there are approximately 14,000 students on sandwich degree courses at the universities, and a similar number of francycar Council for National Academic Awards sandwich course

This these not take into necessary the polyrectories.

This these not take into necessor the lorgs number of students on sandwich courses which are not of degree level. The benefits of these courses are oppreclated by industry, the ocademic institutions and students of the second or the second of the second or the second of the second o

dents.
In the early part of the 1970s, however, sandwich course education received n eertain amount of had publicity following the results of research wook at Bradford University, carried out by Professor Frank Materials and a fast tank Musgrove und a team of assistants
-one of whom was Professor Alau Smithers—as o longitudinal study of the 1966 student intuke at the niversity.
Professor Carl Hanson.

Professor Carl Hanson, the university's pro-vice-chancellor, has recently pointed nut that only 51 students were involved in this porticular study. The findings of same papers were based on even fewor respandents, and it is questionally whether at that time there was sufficient experience of the integrated sandwich course degree or indeed the career progression of its graduates for the pronouncement of conclusions that are still being quoted when the future of sandwich courses is under discussion.

wandle-search and the work of the leave then perfectly fitted to their environment, perfectly unfitted for the work which they should do. Over 40 years later this trenchent triticken remoins perthent, perhops over more applicable new, with all the "ndwnjees" in the olectroal media, than when it was first willon.

In the environment the was first willon, the work of the being quoted when the future of the mean of the leavest of the first one to the three-year cadentic willon, rather conformate in outlook, quictly serial down to the sobar and organized routino of lectures and organized routino of focts, figures and quotations of the second graduates when the second community that the hidden assumption which, on the whole, the occludes a more than the steady accumulation and assimilation of focts, figures and quotations; to accept. The the habits than the state of the control of the second proposed to the second passion to the send of the course only to be an advertised to the second proposed to the s been temployment of predictive were not a finded and a finded in the finded graduates who had been completed for up to three years. They were then about whether sandwich course or graduates on the finded for the consequence of the consequenc

recently published a book ontitled a said which it is reintroduced the implications of the Bradford University work carried out hetween 1965 and 1970. He has also introduced queries in to three year academic undergraduate on and the four-years sandwick course undergraduates, together with the problems associated with the organization of work placement for larga numbers of students.

The altuation bas changed alines to courses and students are students.

The altuation bas changed alines courses and students are courses and the polytechnics. Now, to years on, wa ars in a position to polytechnics are concorned educationists and the polytechnics. Now, to years on, wa ars in a position to molying organization, in the property has properly to making organization of centralization polytechnics are not students. The students organization of suitable lines are courses and students. The altuation bas changed alines to properly to making organization of suitable lines are not students. The altuation bas changed alines to properly to making organization of suitable lines are not students. The altuation bas changed alines to properly to making or molying from the polytechnics are not students. The altuation bas changed alines to properly to making organization of centralization of centralization of centralization of the composition of centralization of

courses and studenta et both the universities and the polytechnics. Now, 10 years on, wa are in a position to realistically evaluate sandwich course education.

Rocently-completed research work within the Institute of Industrial.

papers produced by the read, tenun of Bradford University. It have, for the past three years is studying the objectives of the tenuity of the integrated sand, or the integrated sand. course degree on career duement seven years or more 4

THE Time-

'dead-end'

embark upon its expansion,

In a large number of our schools, especially those in urban areas, there is a significent nool of intellectual ability which, by virtue in the deprived situation in which pupils find themselves, is virtually mapped. This intuities both injustice for the individuals concerned, who cannot develop their talents graduation.

Seven general objectives to defined after discussion and employers, academic staff and gleents, after which interview to dents, later which interview a corried out with large numbers, enadontle staff and a dentermine whether a chief these objectives were the underview of the manufacture and the second of who cannot develop their talents to the full, and a needless wastage of a most precious resource. At Sussex University we have been sensitive to this issue for a number of years, and in 1971 introduced an admissions scheme whereby we seek to identify pupils who come into the above category and to ease the process of their admission to the university. Now, five years on, and when the scheme has produced its first graduatas, we are in a position to make on initial evaluation of our scheme and te evaluation of our scheme and te railing was high, nod the openinterviewed certainly coolice with the implications in Profes Muserive's paper of 1972.

following table that was pulse sharing the study. Age Nami 10-34 45-39

The deprivation from which such pupils suffer by virtue of their home sud school backgrounds results in more than just underachlevement in the A level papers which they may take more from 15-39 5000 26 at compares the salaries of the science and ongineering galaxier from nativer universities with head graduates as of April 1, 198 his salary survey involved 60 galaxier Branel University, and skeet the comparison is interesting to popular basicate on the basic transity. willil hesitate, on the bass of n small number, to assume he is the literature and with course great would be corning higher solving. income but also through the general ethos of the area in which thoy live or the school in which they

Cost references

The cost references in Phis. Smilliers's book were related in high illrect costs of the fear sundwich course degree to the three-year ocadenic lineaguer three-year escales of the sundwich course age of the sundwich three-year escales of the sundwich three-years of the sundwich three-years of three

concorned educationists as book more as an historial mout than a poloter for the planning of sandwich.



suits in more than achievement in the A level papers which they may take; more frequently in results in their not taking A lavel papers at ail.

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to facilitate the entry to our own institution of pupils who oro likely to underschieve in their GCE examinations for the reusons outlinod above.

In order te run the scheme ond to achieve these nims, we have consisted an anchording the relevant occident units of the relevant occident units of the university are represented. As well as monitoring the scheme of a university place with it the implicable that on effer of a university place will he made, conditional upon A-level grades which are lower than those normally required for admission to read a porticular subject. The candidate receives this candillenal after ofter submission of the annul UCCA opplication, has suggested a number of Inner Londen comprehensive schoels and, in this experimental five-year period, each according to the university.

Ho (or she) will be interviewed by one of the usual subject interviewed by one of the university. In such aress ocademic work is and the pressure to centorm to a society which sees no value in academile work results, ist best, in severa difficulty for those who wish to do the work, and, st worst, in early departure from the school.

importance of academic horizons and achievements beyond school gives rise not so much to the rejection of further education as to its never even being considered, and this may be a more significant appet of the deprivation thun is financial hardship.

Sussex University to help children from socially deprived backgrounds

Any scheme which is devised to tackle the problem must therefore go further than merely offering places which are conditional upon lower A level grades than is usual; it must attempt to diffuence the ethos of the school lu order to encourage children school lu order to encourage children school by talks to the fifth form with a view to giving them some idea of what a university lust to offer before they make a decision obout staying on in the sixth form. the sixth form. The acodemic team will concon

Peter Simpson

reports on

a scheme at

The acodemic team will concontrots on interviewing particular pupils lo dis lower sixth whom the staff have picked out as hoving university potential and as being generally epproprials for consideration. The opportunity is also taken to discuss the pupils at length with members of staff so that a picture-amerges as to who should be offered inclusion in the scheme.

Such inclusion which takes place towards the end of the first year in the sixth form, carries with it the implicablee that on effer of a university place will be made, conditional upon A-level grades which are lower than those normally required for admission to read a porticular subject. The candidate receives this candiltenal offer ofter submission of the usual UCCA opplication, and after a normal admissions interviewed.

way the importance of A levol grades is diminished, and the candidote's entry te Sussex mode oasier, in line with the second gos! oa described obove.

oa described obove.

The extonsive contoct hetween the university and the schools, comprising the visits and intorview sessions alrosdy referred to and reinforced by a lower sixth visit to the university, goes a long way to establishing the awareness roforred to in this first gosl. Once cendidates start the entar that university—or oven before—thore appears to hat an offect on the cities of the whole sixth form of the sort which we have identified as necessary.

The schools advise us that as a

The schools edvise us that as a result of our established relationship, enury to higher oducation os a whole has inercased. This was take os ovidence that our first alm is being achieved, and we are well satisfied if our efforts turn out to be guiding people into other justitutions of higher oducation as well as our own. ns our ogm. Often, indeed, the burden of our

advice to a potential candidate alight be to spiply elsewice, and net to Sussex, if only because we do not offer an appropriata course. We are actitely oware of the fact that we may, in some cases, bring students to the university who simply cannot cope with university life. Some of those admitted through the scheme have certainly

failed to complete their courses, and some have required a good deal of counselling.

However, it would be surprising

finis were not so and, in any case, it is not possible yet to be certain that the numbers in these categories are significantly greater (or smoller) than those for the undergraduate population as a whole.

If these numbers, in the light of finither experience, do turn out to be exceptionally large, then there io still a value judgement to be made. Do we deay the opportunity to those who can cope, and will make the grade, in the laterests of the few who cause? the few who cannot?

The results obtained by the first cohort to pass through the system ore certainly encouroging. Of the five students admitted in 1973, one withdrew, one obtained a third-class degree, one a lower second and two obtained upper seconds. One of these students is now registered at the university fer o higher degree.

Our experience over the five-yesr period which has recently suded has certainly given good grounds for optimism, and it is our intention now to expand the scheme and to encompass a wider range of school

children.

Givon that we cannot maintain our present level of visits for an ever-increasing number of schools, we intend gradually to chift our attention away from a school enco we bave established tha desired relationship, and to concentrate the resources released on another school.

Any one school night, therefore, expect to be involved for a peried of about three or four years with a full level of visits and so on, followed by a similar period in which there would be a reduced level of activity.

In this woy the number of schools which know us well will grow, and, hopefully, they will all continus te seed their pupils to us, and to other universities and celleges, long offer the britial peried of full involvement.

mont.

If this type of schama is of real coclad value—and wa holleye that it is—thou it is our hope that other it is—thou it is our hope that other universities and colleges will toke up the idea and expend it still further. Some, we believe, are already operating similar schemes; in this way the ideals of equality of opportunity and of the maximization of our natural resources will be approached more rapidly.

thereofs. Lubasz offers us no hake stidenea than this.

Is a search of ordence is the search of the





Graduates continue to have economic edge

Despite the questions raised receivily about this economic value of a degree, attending callege still pays off, uccarding to a respected New York financial analysis organization.

A study by the Conference Bard found that the economic edge culture or advances have over their lege graduates have over their contemporaries who did nor go to university has been blunted in recent years, hur their employment

their jolis are in accapations which react to recession by grawing auro slowly, rather than by reducing their employment level. Between 1974 and 1975, for example, blue-collur employment fell by 1.8 million, while employment in professional and technical fields — which provide jobs for most college graduates — rose by mare about 1990,000.

Gradientes also continue to have n difficients also commune to have a higher average income than thoso who completed their education at school. Though the income gap has narrowed, it is still imposing: in 1974 college men over 25 made 36 per cent mare than their high school counterparts at difference of \$4 500 counterparts—a difference of \$4,500. And male university graduates between 25 and 34, whose income

and non-graduates has narrawed less for wanten than for men. This is because the higher-paying jobs have average.

The ounlysis, by Dr Leonard Lecht, found that people holding a degree are less likely to be innemplayed than any other group in the lobour force, and are three sinues less likely to become unemployed than the labour force as a nwhole.

The median in the labour force as n whole.

The median in the labour force as necessary to be a necessary to increase opportunities for roomen than jobs in other in median increme between graduate and non-graduate warmen over 25 and 1974, compored with 10 per cent for necessary to be a n

genting degrees over the next 10 years will still be at an economic advantage. It gives several reasons

for this.

First, fewer young poople will be coming on to the Jabour market because at the declaring birth-rate over the past 20 years. Second, the growth in college enrolment is elawing. Third, graduates are enterling a broader range of white-coller jubs than in the past. This has encouraged changes in job curront and the celabisisticant of new orent pations. Between 1974 and 1985 some 2.1m jobs will have opened for college griduates because of educational apprinting — for example, doctor's assistant, legal para-professional and nearly specialized technical occupations.

Finally, professional and technical contents of philosophers.

Finally, professional contents of philosophers.

Finally contents of vital

between 25 and 34, whose informed advantage over non-graduate peers is slighter, still bad incomes overaging \$2,000 nume. In addition, graduates are emplayed in positions involving more generous fringe benefits.

In come progression is also greator for men with a degree. In 1974 the

Income progression is also green to find the power will emitted the power of the programme, in not get much the power will emitted the power of the programme, in not get much for the get with no test. In the teaching or course, is not interest, and the teaching or course, is not get of the programme, in not get much for the programme, in the teaching on the get much for the programme, in the transfer of the programme, in the transfer of the programme, in the transfer of the programme, in the transfer t represente.

The New Programme is on ostonishing departure from what goes on in simost avery other college. The conception is straight out of the Renalssance. The structure is unbanding and outward formalities

Our correspondent visits a 'Renaissance college' that concentrates its learning almost exclusively on reading

In the beginning was the world

the course is one of the most intellectually varied, climbenging and exhausting that ended be imagined. It rousists of veading, reading and more reading. There are no feilla and no specializations.

The programme is the broks. The education is strictly classical; stu-dents are confronted with the uriginal sources of the western inteller-toal tradition. And this is all they

The list of books has hardly rhoused in 40 years—blough it is constantly under review. It includes viotually ult the major philosophers, writers, anadiemadeisus, scientists, musicians, poots, theologians and dramadiats from Homer to T. S.

The books are read chromologically. The first year consists almost entirely of the Greeks and Ramanas: Homer, Aeschylus, Sophocles, Herodouus, Plato, Aristatle, Euclid, Flutarch, Moreus Aurelius and others.

Tho second year starts with the Riblo and movos on to Virgil, Plutarch, Tochus, Ptolemy, Galeu, St. Augustine, Thomas Aquinus, Dante, Chaucer, Machiavelli, Martin Listler, Copernicus, Montargne, Hacon, Stakespeare, Kepler and Parading and the college has to do. Hut there is no lack of competition for their replacements: St. John's receives dozens of applications to teach each year.

Getting rid of misuits, the dean of the college, admits, and lack of competition for their is no lack of competitions for their is no lack of competitions to teach each year.

Getting rid of misuits, the dean of the college, admits, and lack of competition for their is no lack of competition for their is no lack of competition for their is no lack of competitions to teach each year.

Getting rid of misuits with the dean of the college has to do. Hut there is no lack of competition for their is no lack of competitions to teach each year.

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Getting rid of misuits with the dean of the college has to do. Hut there is no lack of competitions to teach each year.

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Getting rid of misus the dean of the college has to do. Hut there is no lack of competitions to teach each year.

Getting rid of misus the dean of the college has to do. Hut there is no lack of competitions to do

St Jaim's helicotes. The writers themselves are the teachers. It willts nothing to come between their ideas and sho students. Though the chosen works represent a good rross-sweep of learning they are not divided into arts or sciences, classical and modern. Each hook is read for what it is, not for what it represents

The unity of mo pose—the dedica-tion to the world of ideas—means that St John's can do things that other rolleges would find hopes-sible. It is n'de in assess students in

that the New Prograte knows from the look on rheir faces whether they are engaged, one there have been keep there are have been keep the said. there have been ker. It also knows almost instluctively opened in Santa Fe Salvinich also runs s 220 colleges have stated a

Si John'e Is attemptigt

a "norm a radice post; a "norm a radice radication. It is no strong that caught the utention distance traditional state oniversities which are

velon they should tead

grated with o muliphin

St John's ls olso refe vervatire lo its acceptant. The college is not for at

one. In present-day min

dondnating force, this as able talk. However, the not happy with a soli-''' We ought to have staken

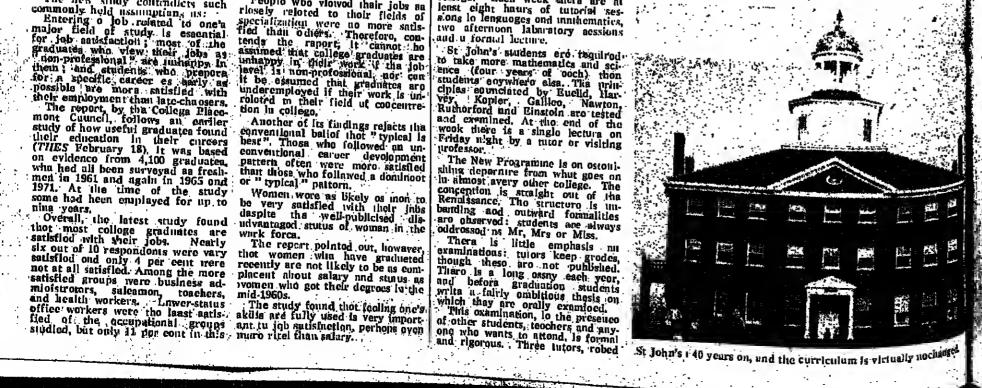
divergent backgrounds a previded that they are a what we do ", Mr Wilson

lint other liberal are now leattling against add tionulism, are not likely a Sr Juhn's model wholese

sistence un studying in with no barkground cours

students leave quickly because they runnut take the fearsome amount of reading and the unrelenting pare. Others leave for better reasons—they have kecome interested in Aucient Greeco and want to continue in a more specialist way with that period, or they may want to go away for a year or two and then return (a lat of students do this). The college dues not enverse.

Intensity: since 1937 It has stead-fastly refused to engage in inter-colleginte sport (though intronucui sport flourishes, and includes such quirks as the Real (llympics with the oillpsald harling contest and the Salands Water Hattle). The arts, apart from music which forms part of the programme, in not get much of the programme, do not get much



Reform plans bring new riots

Tension in Italian universities was Tension in Italian universities was at a new high at the weekend as a policentan was killed in clashes with students protosting at the povernment's long-promised Bill for uni-

meol's long-promised Bill for university reform.

Studeots who had occupied four faculties at Rome University, purely in protest against the Bill, were finally driven out by police.

In Bologna, elso the scene of student-violence last month, students accupied four faculties while lucal authorities warned that they may have to be thrown ont.

The Bill, promised for three years and finally speeded my in response to the recent student rovelt, is the latest in a long sories of attempts at university roform presented over the years as the universities have stoadily deteriorated.

All, except for urgent atop-gap

All, except for urgent atop-gap measures approved in 1973, have failed, largely because of atrong dis-

agreements among politiciana.

The present Bill is also contraversial: it has been criticized by the left wing and in academic cirrles as well as by the students. But it may have more chance of success: the noar-parelysis of the uni-

from Guy Neave

Grandes ecoles set to

take more technologists

PARIS

Of agreement.

Under the Bill twn new forms of onlyersly qualification are to ke instruduced. They ore the diplants, o lower-level degree available after a short period to study—probably alimit two years—oud the tesearch cocoroie. The latter would be owarded after faur years' post graduate research and is restricted to those intending to embark on a university teaching career.

Since a are in the week. They would have to live in the town where the university is stunned and are the university administrative bodies.

They would also be forbidden to run any business or have any extromary business or have any extramary business or have any extrama

unknown in Italy.

The present system of one-chair faculties is replaced by a British-style departmental system. Professors would be obliged to pool libraries, facilities and equipment ond coordinata teaching activities and research.

There would be two types of professors, dia "ordinaries" and associate professors. The latter category would be composed lorgely of the present short-term professors and university assistants. and university assistants.

ratoires are to be created to cater

for some 6,500 out of the currently estimated 50,000 studing the techno-

logical and applied science bocca-

versitles and the explosive mond among the students may induce the politicians to strive for some kind spread are no test than four days in the week. They would have to

is considered one of the major de-fects of the universities at present. These new qualifications are in addition to the traditional liabout degree, the languages, awarded usually after four or five year courses.

The Bill also introduces degrees in physical education, at present unknown in Italy.

The present system of one-chair

The universides, at prosent run largely by a small minority of full-tonnre profassors, would be administered by councils reprosenting a far wider range of interests.

The Bild also provides for the creation of a Nadonal University Council which would include not only representatives of professors, students and non-teaching staff but also experts on economic planning, research and education.

South Africa

Government again bars

The devolopment of terhnalogical subjects in schools has boon the centra of fitful ablention in government clickes for the past 10 years. In 1965, for example, they were declared as having equal status with the classical subjects such as mallentials. French and Latin.

d'unther booses to the eintus of these subjects come in the Loi h'Orientation of July, 1971. Technology was introduced as one of the fundamental disciplines to the comprehensive middle schuols (Colleges d'Enseignoment Secondaire)

gestion muoted was to reserve a quoin of places for the applied science condidates. This has been As with most competitive examine

Coloureds JOHANNESBURG

oppointed commission that Coloured students, both undorgraduates and graduates, should be admitted to all universities in the country and should not be confined, for the most should not be confined, for the most property to the supersited linearity. Pan-Amazonian varies (Name of the study-plans that the pan-Amazonian varies (Name of the pan-Amazo

Fay Haussman on the questions being asked at a key post-graduate centre in the Amazon



Telling the research wood from the trees

The Contra of Postgraduate Amazonian Studies (NAEA), ar the Federal Univarsity of Pil'à in Belém, has ect itself two tasks: to cut with solid scientific reaearch through the losh mythology eashrouding Brezilian Amazonia end to train experrs capabla of tackling the probloms of o rapidly chenging tropicol rogion. How well is Antezonian man adapted to his environment? How successful hos spontaneous settlement in Brazilian Amazonia been in the past? What are the stunding blocks of land legislatian in Amazonie? How far is the study of Africon regioned development relevant to the probloms of Amazonian development? Questions such as these are today being raised end investigated at NAEA.

NAEA started working in Februory, 1963, with an interpretation of the funding of NAEA's programmie and to the full scholarships awarded the students. Schalarships for foreign students are given by Brazil's Ministry of Foreign Affairs, which also aelects suitable candidates.

NAEA heas several features which make it remarkable in Brazilian contexts. There is its roster of professors which combines Brazilian other countries, foreign professors from other countries, foreign professors from Colombia, Bolivia, Belglum and the United Stares, and a group af renowned specialists fram Brazil's southern universities who work os "visiting professors." Widdin tha noxt four years, 20 of NAEA's programmie and to the funding of NAEA's programmie and to the full scholarships awarded the list students. Schalarships for foreign students are given by Brazil's Ministry of Foreign Affairs, which also aelects suitable candidates.

NAEA heas several features which make it remarkable in Brazilian contexts. There is its roster of professors which combines Brazilian and the university of Foreign Affairs, which also aelects suitable and the students. Schalarships for foreign students are given by Brazil's Ministry of Foreign Affairs, which also aelects suitable and the suitable and the funding of NAEA's programmie and to the full its students. Schalarships are

graduotos, should be odmitted to all universities in the country and should not be confined, for the most purt, to the segregated University of the Western Cape.

The recommendation, one of mony lindrods contained in the report me the remaining open of the Western Cape.

The recommendation, one of mony lindrods contained in the report me the Thoron Commission set up some years ago to inquire into the conditions and future of the Coloured population, we made ut the instance of representatives of the contained on the conditions and future of the Coloured population, we made ut the instance of the contained on the contained on the charge of the commission actually in their sociaeconomic of representatives of the contained on the charge of the commission method to be contained in the report of the contained on the contained on the charge of the commission of the contained on the charge of the commission of the contained on the charge of the commission of the contained on the charge of the commission of the contained on the charge of the commission of the contained on the charge of the commission of the contained on the charge of the contained on the charge of the contained on the contained on the charge of the contained on the contained on the charge of the contained of the charge of the charge of the contained on the charge of the

the rest of the nation.

Amazonia is nine times as large as France: it covers nearly 60 per cent of Brazil's national tecritory but has only 6 per cent of its population producing less than 4 per cent of the national product.

The ambitious Trans Amazonian road-building programme, which was undertaken in 1970 and has by now been largely completed, has been criticized chiefly because so little was known of the area suddonly opened up by the new roads. For concerned Brazilians, thorough and lengthy sclending suddes should bays preceded, and perhaps in part.

But, even so, the development of larger products as fill the settlement of Amazonian lands.

But into operate as part or a university, and or the postgraduata level. Nancy Stopon, a graduate of Oxford University, says in her book Beginnings of Englinings of Stopon, a graduate of Oxford University, says in her book Beginnings of Englinings and English Science that until the end of the ninotoenth century Brazil had no institutes or schools abla to train research scientists in a systematic fashion. In Amazonia, for example, most of the rosaarch of that time was done by foreign explorers and naturalists among whom Chories Darwin, Henry L. Bates, Alfred Russail and Wallace Richard Spruce have been prominant.

But, even so, the development of research in Brozil antedatas the creation of univoralities. As a result Brazillen research, most of it applied or problem oriented, has been creation of univoralities. As a result Brazillen research, most of it applied or problem oriented to product.

their employment than late-chaosers. The report, by the Collega Placemont Cuuncil, follows an earlier study of how useful graduates found their education in their cureers (THES February 18), it was based on evidence from 4,100 graduates, who hed all been surveyed as freshment in 1961 and again in 1965 and 1971. At the time of the study some had heen emplayed for up to ning years,

Another of its findings rejacts that conventional baliof thot "typical is best". Thosa who followed an unconventional career devolopment pattern often were more satisfied than those who followed a donlinoor or "typical," pattern.

Women, were as likely or your test.

Facty years ago there was a revolution in one of America's addest calleges, and the treators are still licing felt today in liberal arts colleges all over the country. Stationary of Mattern Right is the largest controlling and the Greatest Gaud.

But within the farmal senting, the country damped in 1696, almished will its departments, the lecture system, mademic titles noul specialization, control credits and the entire corrictional linstead it internal each control multiples and the entire corrictional linstead it internal each with messionic fervour the Now Programme: a single inflexible four-year course hased on 130 great books.

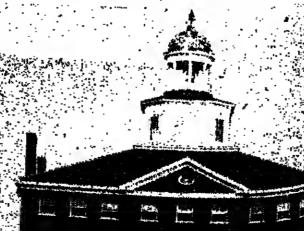
The course is one of the most intellectually varied, climbenging and exhausting that could be

Though each comes to the college with a PhD in a specialized field, he has in learn as much as the successful, but he may be lawyer or French specialls), but he will also be teaching Greek or discussing Einstein.

The unity of autopose—the dedicates with a gamble factoring of the probably of the college with a gamble factoring of the probably of the college with a gamble factoring of the probably of the probabl to was a gamble to thangh probably od; b) college is so small [\$\frac{1}{2}\] for the forty.

whether a tutor ar student thes out fit into the almost monkish atmosphere. Gening rid of auguit-uble nutors is, Mr Carris Wilson,

The college dues not cavourage much that dilutes the intellectual intensity; aince 1937 it has stead-



The propused innovation is not without apposition, pandcularly from the other grandes ecoles. In the discussions precoding it, one sug-

Changes in the entry conditions to the grandes écoles, France's top institutes of higher education, are to be introduced from Ortaber, 1978, M René Haby, Minister of Education, has announced.

The reform, which pramises to be one of the most significant since the war, is part of a long-term strategy designed to improve the standing of techninogiral studies in French secondary schools and in higher education generally.

From October, 1978, school leavers passing the bacculanceat in other technology or applied sciences will be offered to sit the stiff competitive examination that can load to a place at one of 67 elito establishments, including the Écoles des Hantes University et all passes.

It is expected that civilent plumpes Chausees.

It is expected that similar rhanges will be introduced shortly to the entry conditions of the Ecole Polytechnique and the Ecole Nationale Administration.

Util now die grandes decles have insisted on a broad goneral educadon, including both sciences and mathematics. Some, however, like the top business school—that Ecole des Hantos Etudes Commerciales—have demanded additional qualifications in the form of economics.

As with most competitive examinolious, a mojor problem is what to
do with those failing to win a place.
This has been solved with considereble ingonuity. Transfor facilities
into the University Institutes of
Technology will be created.

the top tour board. Somewhat is the source that the source the source of the source of

HIGHER EDUCATION SUPPLEMENT New Printing House Square, London WCLX 8EZ, Telephone 01-837 1234

Reaching the disadvantaged

schoole, which has just finished its necessary in a non-selective age. five-year experimental period and and identify children who might be unmpower-involving nine or so uble to benefit from a degree staff in regular visits to schools.

The idea behind the project is to find some woy of countecacting the fact that entering a university is e predominantly middle cluss activity, a function of class and background as much as obility. The social peessures on a wnrking-class child to leave school as soon as be is 16 ere immense. Those working on the Sussex scheme have drawn attention buth to the financial pressures 10 start carning a living as eerly as possible end the more insidious sures are embodied in the reasonable but self-perpetuating general orritude that academic work is someililag reserved for another class und is, therefore, defensively (and aggressively) labelled n wasto of ilme. A working class pupil who opts for higher education, also opta, whether he likes it or not, to leave his social bockground and distunce himself from family and friends. This is only rerely the case for the nılddle elesa child-it is probably sometimes so for girls-who is gen-

child into on ocadenile environment schooling gave him the opportunity in the future, still the saswer must to learn about the possibilities in be "yes".

Zishism in student unions has some

elarming features. Lost term e

mstion condemning Zionism as rucism twos put in 17 different unlous within a matter of weeks. The Union of Jewish Students has reasonably claimed that this was no

accident and that there is now in progress a coordinated comparign ageinst student Jewish societies.

In a few oniversities, notably those with a high proportion of Arab students, the campaign has led to re-arriculone on the activities of those societies. In Salford, for Instance, where there are about 35 Jowish

Anti-Zionism on campus

The recent demonstration of auti- societies. At Salford, there is no

erally conforming to his porents

Sussax University has been associ- higher education and to adjust menated with adventurous admissions telly to the idea of explsiting them. schemes from early on in its his- Comprehensiva reorganization has tory. One of these is its project to meant the and sf this eutomatic encsurage socially disadvantaged channel of esmmunication between school pupils to go su to higher edu- universities and working class chilschool pupils to go so to higher education, if necessary with less than dren, and so schemes like that sf
the usual qualifications. This Sussex become more, but less,
But there is no sense in your idea

The problems associated with conwhich looks likely to continue and tinuing and expanding such a proexpand, luvolves staff in visiting ject cannot be underestimeted. selected ILEA comprehensives in There is the fact that it is extremely order to talk to pupils and teachers expensive in terms of university Once at university these are undergraduates who naturally need more rely on our own machinety and our time and attention from tutors and own good sense. We do have cumusellora than the average student-and even then some will drop our. Nor can the problem of counterocting the dominant, anti-academic other be understead. Only five outhors considerably. However, or six punits a year large massed such measures have been token or six pupils a yeer hove passed through the Sussex scheme and these

were not easy to find. Whether changes in sixth-form organization would affect it beneficially or adversely is hard to say. On the one hand, fewer sud larger sixths would make visits more ecanomical as more pupils could be et one time. On the ather hand, the crucial decision pupils make is whether to stay on after the fifth form. The hurdle from fifth to sixth Is the one most stumble at, and If moving to the sixth form meant moving to a new school or college it could prevent the most

disadvantaged from going on,

Is the line ond money spent on o scheme with uncertain outcome worthwhile? Feedbock from Sussex indicates that more pupils expectations by going to university. here heard shout higher oducation In the post the grommar schools opportunities and a few have gane served the vital function of chun- on and successfully completed neiling the bright working class alegrees and even if this has not massively altered the middle class end so, more easily, on to univer- intake of the universities, end even These years of secondary if it does not look likely to do so

objection as long as the society's rolo is culturel rether than political.

Director, Textuel Communication Research Group, Open University.

Sir, - Your treatment of the controversy ebout "Marxist blas" in Open University courses makes dapressing reading for anyone who believes, as I do, that higher education should be committed to

regerded as noo-political.

The proponents of what they regard es a well-tried, balanced syllabus ara often, in practice, requiring e syllabus which both perpetuates the status quo and neutralizes any arguments or techniques for altering it. "Pluralism" sounds like a good idea, but in effect the reactionary teacher can use it to evoid stating his own commitment and to confuse the student by reporting contradictory theories.

The elieged bias of some Open University courses is as nothing to compared with the prejudice, distortion and superficiolity of Professor MacRee's comments on this parchicular Open University text.

Yours sincerely, Infougn the 1950s societies one and jewish ance shows to jewish societies to societies council reasonably be muster enough support to overturn expected to commit themselves the intelerance democratically. No inti-Zionism. The unions where student should be prevented be the anti-Zionist motions have cause of his rece, religion or pull-been passed are themselves conticts from adjuying all the facilities. Firsted about their anti-Zionist motions have conticted about their anti-Zionist motions have a first anti-Zionist motions.

LETTERS TO THE EDITOR

teaching, the majority of syllabuses dish up un authorized canon of

tinn of literature tacitly suppuris,

without giving these students any menus of questiming their validity

or even of seeing their historical relativity.

To return to the issue of Murxism,

your objection to it seems to be not simply that it is a mode of argumentation practised by intellectuals who are of the left, but also that it is en explicit theory and methalology, an analytic instrument cupable of

rucking the boat.
One can think of any number of

Seliunt of English and American

Sir,-We found Professor MacRac's

roviow of the Open University Reader, The Process of Schooling (THES, April 22) unbelievable. We suggest he rereads more carefully

tho footnote in the lutroduction which disturbs him so much,

Yours faithfully,

ROGER FOWLER.

Bias at the OU

Sir,—I agree that some Open Unition not of the right; moreover, versity courses bear all the signs of the fact that it occupies that posi-Marxist bias (THES, April 22), tion in the political spectrum is, in Marxist bins (THES, April 22), though the evidence has not yet our society, invisible. Marxisu has been spelt sut clearly enough to parsuado everysue. And has not least the virtue of heing obvious on the last the virtue of heing obvious of parsuado everysue. And has not least the virtue of heing obvious spent fostering that some revolutionary dogma which gets decisively they employ o set of theoretical rejected at the ballot box. A full the light of the last spent fostering that same revolu-tionary dogma which gets decisively rejected at the ballot box. A full credit Open University csurse (one-sixth of e degree) msy cost £500,000 to prsduce—no wander we get cslls ldentifying and open to debate. The danger of an invisible ideo-logy is perhaps less in a discipline like sociology where the subject matter is manifestly political than in subjects like literature and phila-

sf on external supervisory bady like the Council for National Academic Awards. The CNAA has falled badly on just this very issue. There are no more outrageous exemples of Marxist bias then can be found in the polytechnics of London and other large cities. What hes the CNAA done about thet?
No, we must (like all universities)

strong sanctions. Units can be pulped and rewritten, and whole churaes can be withdrawn for revialon. No one likes to do this, for its costs. for it costs money and hurts the

before, and can be ogoin.

The Open University system of production makes it difficult for us to ovoid these problems in edvance. Authors and teoms work to tight achedules, and often the content of units is not discussed enough in the tean befare the production deadling acrives. It is ell too easy to deficet suggestions for change because "there is not time".

on the other hand, our causes are in recorded form, so it is possible to pick up some of our mistakes, examine them et leisure, end remedy them. I wish I could say the sense of other institutions. It is not unknown for iccturers elsewhere to incite students to violence . . . but this usually remains conveniently hidden from the public gaze.

Fortuitstely for us our students are independent odults who bring to bear their own experience and commonsense. They are not so malleable as you might think. But if their education is being impoverished by systematic propagando or the omission of important ideas, then we should all be deeply concerned. And some of us are, Yours sincerly, MICHAEL MACDONALD-ROSS,

There is a long, passionetely upheld student trodition of opposition to racism and the present policy of the National Union of Students is to deny a plutform to those they think are fascists end racists, although the executive wont to modify this. The anti-Zionists bave the aupport of left-wing as well as Moslom students. Student unions however, must see that opposition to racism end the exclusion of fellow students from the union are very the young by the old. where there are about 35 Jowlsh students and several bundred Arabs, the Jewish society has been told that it cannot use the union building for "Zionist" purposes. Doubt has also beec cast on its right to invite 0 speaker to talk about Judalsm and Zionism as part of an Israel week at the university.

Democracy has been powerless to stop this. Student genecal meetings are not renowned for thair high attendance and two attempts by that riny Jowlsh society to overturn the original decision have been met by a raeffirmation of the previous policy. As Mc Simon Ceptlan, cheirman of the Unital of Jewish Students has pointed out, the line between Judalsm and Zionism is a fine one and Jewish societies counce the support to overturn the between Judalsm and Zionism is a fine one and Jewish societies counce the support to overturn the between Judalsm and Jewish societies counce the support to overturn the between Judalsm and Jewish societies to constitute the support to overturn the between Judalsm and Jewish societies to constitute the support to overturn the discussion of Zionism of the previous policy. As Mc Simon Ceptlan, cheirman of the Unital of Jewish societies to prove the discussion of Zionism of the support to overturn the between Judalsm and Jewish societies councer the connected the matters. Mc Charles the matters. Mc Charles Clarks, president matters. Mc Charles the matters. Mc Charles Clarks, president matters. Mc Charles the subject to one force this view in Salford. The response of the Salford students union to his appeals and to the attempts of Jewish students union to his appeals and to the attempts of Jewish subjects to the salford the matters. Mc Charles Clarks, president matte

cansorship of the left by the right, the young by the old.

According to the theory behind both the reported criticisma of the Open University and your own comments on the situation, intellectual activity of tha left is political or blased, whereas that which makes no pollifical statement, or which "presents a plurality of views" is non-political, unbiased. If an astonisbed that such a conception of higher education should be regerded as noo-political.

The proponents of what they regard es a well-tried, balanced as small perpetuates the status quo and neutralizes any arguments or tech-

research

Sir,-Dr Harold Hillman har gested (THES, April 22) that a muls given to the RSPCA took. used for cesearch purpose pi than destroyed. This might h in fewer unimal deaths, burits, lead to more unimal suffering As Itr Michael Pesting d

Medicul Research Council LE tury Animal Centre het de shown, fewer specially bred to ticulty and offerobiologically fined" animals ere needed achieve the same statistice m sophy where die materials and themes seen not to be pulitical. To take an example within my own experience: In English literature sion than should undefined ni be useri.

In any case does or En-helieve that the RSPCA would over dogs and cats to the texts and recagnize no obligation to examina the basis on which the selection has been made. History, theory and methodology ere taboo because they are, potentially, analysic tools which can be applied to the design of the syllabus, with subversive effect.

The maintenance of standards onto the streets. outnums to requiring students to accept the values which the Institu-

Finally, Dr Hillman want "the public would have to ke sumbed that labsretory expense." do not involve pulo to the seri It is true that in some cra-pain is minimal, but it etc. is severe and prolonged. Yours sincerely, STEWART BRITTEN,

Sir,—May I say his much in with the points raised by the of Dr Ilmold Illimae (TRE, t

one can think of any number of snalogous methodologies—in tho countext of literary studies, theso would include sociology, linguistics, structuralism—which would be suspect from this point of view. The academic ostablishment which suppresses these activities while concealing its own militical blas under the hungers of experience and pluralism needs public expusure and delute much mare than do the frank and accessible (IU courses in the social sciences.

Yungs faithfully. unionis, with reference is residuals in the testing of the clause should provide somes in the usu of such visit and unionis.

Scrandly, on the use of such teaching, may I add a point of listed by Dr Hillman; at men levels of punching, at lead, of of live aulmals for purpose, a many like to orgae are not sent to other forms of approach to easily provided by one many the lands of a skilled laws.

Work placement

Locarsfeld, for exumple, is not described as a "mnjor figure" in the tradition of structural functionalism. He is, however, described as tha "major figure" in the tradision of "empirical social research" in "America in the 1950s". The foorage clearly end concepts are research. Sir.-More than 6,000 stud Sir.—More than 5,000 stores registored this year for the cil fur National Academic is sandwich degrees is in studies. At any one time, 195 should be controlled the control "America in the 1950s". The footnote clearly end concissly separates
structural functionalism and emplaleal social research, puints the
reader towards some of their varied
origins, and Indicates the historical
location of thair leter synthesis.

While MacRae implies, further,
that the text suggests Lexarsfeld was
"little edneerned with methodology", the footnote in fect argues
ther his work "disploys whet some
regerd as an obsession with methodological Issues"

To go on to describe it as full
of "a greet deel of old material,
largely American", when in fect,
of its 28 erticles, only three were

the business studies board boord peys particular angle the role of work experience; wich courses and to the she colleges to provide a ranga's fuctory placements. Yours faithfully, IOHN STODDART. Cheirman, Business Studies I Council for Natisnal Act.

Gray's Ing Road, Landolle

In praise of plastics The predicts of the plastics industry are

gaw all pervading. Many of us have played the game of visualizing a day in our lives with all plastics products comuved from it Our teeth are unbrushed, our dentures vanish. the lenses drop from our spectacle frames, our clothes are removed by technological strip

The car cannst be driven, we are cascaded by rain as the gutters dematerialize, and so miserobly to beil sans television or radio. without illumination, to sleep fisfully os we know that the alarm clsck will am function sad an call will buzz the telephone's skeletal

While you concoct your uwn rersion of this technological game. Let us remember, however, how recent is this transformation of our world from reliance on natural materials to a dependence on synthetics. The lirst marketable synthetic fibre was com-mercially menufactured in 1891. The work-men who made it dubbed it "mother-lu-law silk" because it was so inflammuble.

"Beerle" plente and tableware was first marketed in 1926, polythene was not produced in usable form until 1942, pnlyesters such as "Terylene" until 1949, and the now stready ubiquitous polycerbonate until 1959. In half a century we have matched population growth with plustics explosion.

It is axiomade that everything made by man must first be designed by men. The presses caunot work until they are given their lastructions. If the immediate instruc-des is computerized, the human programmer remains the prime untivutur. The designers decide, on our behalf, what our physical world shall be like, so it is not norcasonable that we should instruct them (or at least attempt to do so) on the rules which should govern their creative endeavnur.

What is "gosd" design? I know what I like and so do you, but this is no insufficient guide to "goodness" unless une is propared to react as positively and as knowingly to the sesthetic aspects of objects and systems os we community do to the more prinsale attributes of efficient function and acceptable

All art is use of the same generic order. The visual orts can be divided (if somewhat relievally) into what Herbert Read designated as "abstract" and "humanistic", and their practitioners C. H. Waldington has more recently described as "the Reumetriciters" and "the maglelans". An appreciation of this division of art into two main classes is essential to an understanding at the aesthede autibutes of plastics—if, us we yet have to decide, plastics can ever possess the attrito decide, plastics can ever possess the attri-buter which sllow aesthetic contemplation and empathy.

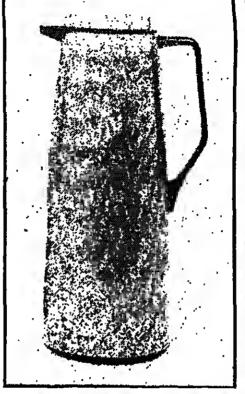
Mithout expanding on my num ocycletic convictions, let no say unly that I heliove at (at its sublime heights) to be an smalogno for creation itself: design is an untalignation of beauty in manufactured objects is humiled by time in e way which the fine arts aro not. There is no timeless absolute in the manufactations of the designers.

Nevertheless objects manufactured from

Nevertheless, objects manufactured from platic exhibit some of the qualities of abstract or geometric art, but we must now subdivide this entegory futo two further part. The products of the plastics industries are either undituted engineering lutended to fold only a technical function (often as someoneot in a technical sympony) in component in a technological system) are designed to be objects in their own right able to arouse the desire which results in sales.

plastic components in space craft, medical equipment or hand grenades. The latter by plastic telovision end radio cabinets, cups and saucers, arbitrary and funny noses. There has intermediate category of olijects such as relicies, discontined panels of mntor relicies, discontined panels of relic only the most simple, eennomical solution will suffice. He must he ruled by what A. N. Whitehead has described as "the sense of admiratisa for the direct attainment of a foremend, simply end without waste.

Sir Misha Black argues that although plastics lack psychological warmth, they can be used to produce objects of visual and tactile pleasure



Insuloted vacuum jug designed by Martyn Rowlands for Thermos Ltd.

englucuring solutions is that the engineers englucering solutions is that the engineers too often printert themselves by an assumed phillstinism and an antagonism to artistic attitudes which they purport to despise. For thuse who willingly sit open before aesthetic experience the engineering cautent is the barrier to a world of which they have little, if any, knowledge and to which they, in their turn, choc shutters of bigoty.

When engineering nocessity dominates all other criteria the end result is mura uften than put hemulful. When the designer is required to occept the dictore of the sales diructor as unthoritative the resultant object may be hemulful—or it may be unspeakably horrible.

The designer rarely leads or forms public taste. His normal role is to react sensitively to anovements in public taste, to be shead of his time only to the extent that he amest be able to sense what will be acceptable in the market a yeer or two ohead of his initial

He must easure that the time needed for working drawlugs, model making, printitype construction, production and morketing does not result in the product looking uld-fashioned, outmided, when it is finally dis-

appropriate then the simple.

appropriate then the simple.

It may be that a subjective and historical stance is all that the designer used to trigger his solution to a pacticular design problem, and this is exceptionally the case when he works for a manufacturer or eatrepreneur whn is prepared courageously to spooser a completely new product sheed of its time, content to speculate that there will be adequate initial, if limited, public acceptance which will eventually escalate into mass demand. and the second s

uality, but it is often agreeable and for this we can be grateful. We have now descended from the height We have now descended from the height of artistic genius, through the foothills of engineering elsgance to the pluteau of agreeable objects, but the bad lands exist at a still lower level. This is the territory of the Yahoo, of manufacturers who value profit above value, of designers who have turown in the spange of their creative and technical integrity. It is the lond where the iledication of polymer scientists and technicalists has been converted into the myrind products which have given plastics the bad name which it does not deserve.

Between the intellectuality of engineering products and the humanism of the domestic, there is a band of udlity production where the two main clusses interact. Here are found to leakened. fined telephones, typewriters, radio and televisinn receivers, dictating and photographic equipment, racuum clemers and helr dryers. They are in part unadulterated engineering, in part symbolic of human ottitudes and

This is the home ground of the industrial designer who has been trelacd in technology and educated in the humanities, who is able to bridge technology with ergonomics, ergonomics with style. To work effectively in this field specific educational expecience is required to produce for hybrid design, designers who are themselves hybrid—part engineer, part artist, part sociologist.

We must now quesden whether multiplica-tion excludes neethetics. It clearly does not necossarily do so. A bronze casting of e sculpture by Rodin or Henry Moore is usually nac of an issue of eight; a lithograph or etching by Miro or Routhrandt may be printed 30 or more times: neither the sculpture aar tho print is reduced in aesthetic value by its multiplication—and yet we willingly evalually cousign a plustic clock to the destination without consumertal.

Artefacts produced from thermo-setting plastics lock the humanity which choractorizes all works of art including those of the ss-called "geomotricizers". When humanity is not perceived, an essential element in the psychological mix which gives rise to sentient aesthetic response is missing. When this is so we can admire and coolly appreciate but we cannot be empriously myyed. we cannot be emotionally moved.

The easthetics of plastics is the aesthetics of mathematical elegance which makes no gesture of welcome to the unfulfilated. But it remeins true that beeutiful objects have been produced in plastics, even if the beauty is a partial beauty which excludes profound

basted ma for not knowing whet I was talking about.

I still believe that plastics (apart from the excaptional situation when they are used by arists as their raw meterial) lack the psychological warnth and the individual thumb mack of the craftsman which are essential lagredients in the making of objects which provide consummete sestisfaction.

But I am far from New Zeakand. What is the future there? I would think that it may

Fragments of life in academe-

New Zealand offers a haven for civilized **Scottish values** lds brief. The physical result of this atti-tude is never adventurous, it thes not engen-der the excitement evoked by creative origi-

In 1971 I was invited to Ocean for a torus It was a soct of Glusgow University of the South Pacific. In the raw winter mornings the exhaletions of the Leith gathered around the Gothle towers of the old bulldings and the sun would slear from ovec the soft surrounding hills. The harbour waters gleaned in the distance. Joe Tui's chin shop and Chinese takenway, just off campus, would begin feebly to bestir itself. Any self-respecting Scot would feel et hame in the globe's most southerly university.

I arclved during the first ever sit-in. It mnde nie feel at kome, foc Lencasiec specializes in pointless yet soul-stirring confrontations. So it was in Orago. Through priroulzing the Captala Cook Hotel, a chain's throw from Joe Tul's ploce, end the intellectual heart of the reilical campus mind, I knew the student lenders and the nure eccentric enthropologists and literature dons. Through frequenting the academic establishment I knew the "other side" of the con-

I come therefore to be consultant to both sides. To the bosses I recommended outsterly lingetion, which was bow we dealt with a mutiny or two in army times gine by. To the students I recommended arguments such as "Adults should have edults' rights", not to mention espansal of dignified behaviour eppropriate to people's notions of adulthood. I was even thought to be cominated as puternial vice-chancellar when the incumbent

sculpture by Rodin or Henry Moore is usually nac of an issue of eight; a lithograph or etching hy Miro or Rombrandt may be printed 30 or more times; neither the sculpture and the print is reduced in aesthetic value by its multiplication—and yet wa willingly evantually consign a plustic clock to the instable without companieton.

I believe it is reasonable to do so, not only because the number of clocks mode from a single mould by far exceeds the multiplication of sculpture, lithograph or etching, into also because these works of art retain the lapact and personal trisee of their original creation, while that design and manufacturing processes which cultilate in the plastic clock in an amongracy which excludes love, or even offecilan. Only when plastic infects accumulate historical assnelations do they attract sentimental vice-cauncellar when the inclinibent left.

I loved every moment in Otago, even the public lectures. I nearly missel the first by oversleeping after jet-lag. Intaglae going all thought from a plustic clock to the two outsides and after conjugate for playing cricket on the mattell vice-cauncellar when the inclinibent left.

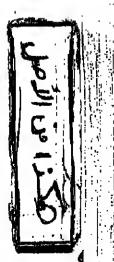
I loved every moment in Otago, even the public lectures. I nearly missel the first by oversleeping after jet-lag. Intaglae going all thought from playing ericket on the mattel corridors of the new your drien neorly missing out. There were good friends to be mode there—like the former dean of arts, reprimanded by the registrar for playing cricket on the mattel corridors of the new arts building; the deal-zens of the Captalu Cuok (Intely terted up), and what provides an after from Now Zenland when corridors of the new arts building; the deal-zens of the Captalu Cuok (Intely terted up), and what provides an after from Now Zenland what provides an anonymity which excludes love, or even offection. Only when plastic clock in the second corridors of the organic from Now Zenland what is remerkable ossocieto professor, as he now is, in the phenomenology of religion, an anonymity which

The Kiwl university system is partly Scots, and one of the hest in the world—only beaten perhaps by the great couties in the United Stetes. It is generous to students, with a good Stetes. It is generous to students, with a good grants system, and the teachers tend to be dedicated, well paid end given to research—parely because they are so far from civilization except their own. So publication becomes vital. On the other fund, there ere those who release into the joys of beer, books, cugby, mounteineering end so forth. But that is better than the DIY lecturer not so uncommon in nur system. Certainly New Zealand has exported mony greet scholars and scientists, and the old Scots feeling for export of brightness flares gleamingly in South Island.

While there I was present et the first ever

human sympathy.

Some 20 years ago I govo e lectuce in Edinburgh to e conference of school teachers. But what rules can we draft for the design appreciation and I then proclaimed that nothing the nothing that nothing that nothing that nothing that nothing the nothing that nothing that nothing the nothing that nothing that nothing the nothing th



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rum their materiol and their own

fantasies, are engaged in transform-

genco in the fourteenth century of the oppusing conceptions of human

The first of these is perhaps an odd choice. As Zecher himself admits, that terms paregrinarie and curiositas are rarely used in the Philobiblon; and Richard, while an extraordinary example of en early bibliophile (or indeed bibliomane), has little to do with pilgrimage.

ing myths and legends into litera-

Traditional Romance and Tale by Anne Wilsun
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Curiosity and Pilgrhunge: The Literature of Discovery in Func-teenth-Century England by Christian K. Zacher Johns Hopkins University Press, E8.25

ISBN 0 8018 1778 1 Figures of Life and Deall in Meilleval English Lileraturo

by Philippu Tristrem Elek, £9.50 ISHN 0 236 40063 0

hi her short and provicative book.

Anne Wilson offers a new wey of rsading "truditionel literature, which includes medieval remance and folktule". Her method involves reading nerretives of this kind es if they were dreems, in which the sequence of events and ell tha sequence of events and ell that material are to be understond as fautasiss of the hero of the tale. The assomption is that the creators of traditional toles "wished to share a doy-dream, and found a response in others, who recugnized it as giving porticularly satisfying form to emotionel experisnee of thoir own". This new perspectiva is engagingly satablished by the onnlysis of some of hisr own children's dreams, and she then passes on to of some of his own children's dreams, and she then passes on to consider folk-tales such as "Cotskin", "The Golden Bird" and thinks ubunt it rutionally.... With his interest in the inter world and his attainment of a measure of detacliment from hinself, the great novelist develops his characters into admit to Frend's Idsutification of the tockniques of the result.

of the techniques of dream— cnudsusation, displacement, over-determination, splitting and so on— but she really does succeed in findpeople as they are in actuality". The phrase "peuple as they are in actuality" begs a large question, reading them are expressions of the olden conflicting wishes of their pranagonists. She notes the constant repetition of simutions in "The King of the Golden River", and there she might have found it helpful to make use of structural studies. elde of the dividing the between traditional and modern narrative. Chrétien und the Guada-poet, writers as well us storytellers, capable of detaching themselves to make use of structural studies of myth such us Lévi-Strauss's classie analysis, "La geste d'Asiliwd". Lévi-Strauss lays more emphasis thon Wilson dues on myth as a mule of thought, not merely of feeling, and that seems to offer a more impeful way forword from myth to Christian K. Zucher's book is based on an interesting and putentially important lilea: the convergence in the formation of contents of

literature proper. For when Wilson passes from the and mellevel remance, the severe limitetions of her method begin to oppeor. Broully speaking, whot amcreas is that the more accomplished and complex the narretive, the loss helpful it is to sea it as a sellpsistic expression of its hero's wishes. The relatively ucosephisticated romence Sir Gowoin and that Carla of Carlyle becomes more intsiligibles if we interpret the three knights as three aspects of the bero, representing his conflicting feelings, and if we see him as placed in a situation which is their of the primal family. "The hare seea himself as rendsred powarless and sexually impotent . . . every time he thluks of the mother ", and the beheading releases him from the spell of a distorted image of the fether. But when ha same method is opplied to the treatment of similar themes by a highly civilized poet such sa this author of Sir Gawain. For when Wilson passes from himself as rendsred powariess and sexually impotent, every time he thinks of the mother and the beheading releases him from the spell of o distorted image of the fether. But when the same method is opplied to the treatment of similar themes by a highly civilized poet such as the author of Sir Gavain and the Green Knight, it leads to a mara travesty of his echievement. The mervelous variety of the Gavoin-poet's world disappears, whan Arthur is merely another version of Gawain and all the women are the same woman. More important if eversting the more in the same woman.

ara the same woman. More important, if evarything is the atory must be seen as the fantasy of the hero, then the poet's powerful and subtle handling of point of view is totally obacured.

For the poet it is crucially important that Gawalo is not aware of what takes place in the hunting field while ha is at bome with Sir Bartisk's wife, but Wileon blandly assuras us that "While Sir Gawain los in bed snjoying defilance with the ledy, he is also out to the wintry wilderness taking part in the hunt's The poet's fine moral diacriminations wanish, and we are left only that latry mound the Green Chapel, indicates taboo.

Thas a two characteristics of the structure: "the releted to do with plagrimage and is surely no more striking of case of curiositus than many other men of his age, or earlier. The discussion is deflected, too, by en obsession with the question whether or not Richard can be called e humanism is deflicated, too, by en obsession with the question whether or not Richard can be called e humanism is deflicated, too, by en obsession with the question whether or not Richard can be called e humanism is deflicated, too, by en obsession with the question whether or not Richard can be called e humanism, and the question in itself is merely terminologicel. Still, the chapter on the Philobiblion is ogrecable recalling attention to an unduly recalling attention to an unduly attempts to find in it an overall the matter when the find in it and overall the matter is structure: "the releted thems of sociol and spiritual to sifence and disorder opposed."

that hairy mound the Graen Chapel, whosa "lurid and unnatural "colour indicates taboo.

Thasa two characterisics, of the universality of the sexual and the country recur too often for us to

obsence of the moral, ore found throughout Wilson's anolyses of pitgrimage". But a seems, is exclusively about its hern's funtastes about women: all the women in it increge into one as a spects of yronton, and so indeed the women would be a seem of the seems of the scons, is exclusively about its hero's funtasies about women: all the women in it merge into me as a summer of the interest of his view of the poem and the three pillars of the Tale, Melibee, and the Tale is oot likely to teach non-academic reader. npplied to King Horn, a more printitive tale, her method obliterotes the poet's contral theme of fidelity ngelust odds; for if all the repeated obstacles are to be understood as representing the hero's wishes, where is the fidelity to his beloved Rymenhild Involved in overcoming this ?

Inc tinal chapter, in Mr. Is in mony ways the mar. ful. Zocher reads the There o purportedly factual scornust be odjudged sides, fulse, but os an imagining in which "Mandeville" is a persona as Charles u persona as Chaucer de and in which we can we a compressed form det motivotions that day niedievol pilgrim frede i sance voyager. Within its become ot oure an emis tion to fourteenth centur und a significant inder de nttitudes in that transical

euch as Sir Launfal and less Guuoin as if they were of the leter dates at which were translated.

Her most sharply delia

echerently argued chapter; con "Mortellty and the Graft, sha has e valuable compared by the Danca of Death, as of the Danca of the Danc

penetreting comments of alon of "The Three Living"
Three Dead" attributed had audelay. If sha bad narrow scope from the baginning

of attempting ins kied conapscius that could only cessful on a far lerger sa

then, perhaps, only as the of a lifetime's work, she need written a more stimulating box

Zacher's book is ship informed and ogreeable an except perhaps in the fraces chapter, its discussed fie works avoids mental that recent generations di have trad, have trod, have it seems to me that he arlesponded the tions in passing how e' curiosity/pilgrimage 27 ivould apply to Piers Place it is surely o great bly hea not explored mars fully be deeply embivalent substipilgrinage. His poem ki orgent journeying, al par that are begun but rawy wanderer cagerly in 82 "knowing"; yet it is also with a longing for stability sense that the truth sacks only by an unquestioning as parlence. However, if Zala

forged an instrument her Philippa Tristram's Fi trated from inclineal ma Alchmigh o serious worked interpretation it is ulder appointing. Its sim is be effect, to affer a survey of sentitudes towards lile, dock ange, the seasons, and obtained a specis of human and through a study of works of ture which will do justice the state of the seasons and state of the seasons and obtained the seasons and obtained the seasons and seasons are seasons as the seasons are seasons intaginative dimension is nicrely treat them as each tions of doctrine.

The origins of radical This adourable and reslly innde, but proves to be ambitious. In the steems to her vast and unsufficient delimited field, Tristram to be and the steems to be a steems to be a steem to be a s tima to focus sharply exit any specific work of her "the medicyal mied" lack is originally. The coaclessing reaches tend to be resouted monpleces such as this: "It months and a thin to be the such as th of Arthur is thus completeetsd, embracing both general part of the experience of all luse brave enough to flout the religious view of society.

The epic figures who gave this new culture its identity and institutions and commonly became its marter. perspective of tiole, and glous, of elernity substantial guisbea sensibly between i leter medieval climates i but her map is confused habit of discussing Middle versions of earlier Freed

new culture its identity and institutions and commonly hecame its
martyrs were almost without excepthe "desorters" from the middle
classes: Richard Carille who transmitted the ideas of Tom Paine to the
"lower orders" in society; Robort
Owen with his new view of society
and Charles Bradlaugh and his
National Secular Society. One still
swalts a rigorous study of the significance of the incorporation of
these "class traitnrs" within the
working classes; most af the effort
of sociologists and historians has
been concerned with tracing preclessy tha opposite mend in social
history, parily to explain the apparent political stability of Britain
Revolution. Yet the most common
ablective of working class radicels
was to secure the support of those
members of "superior classes" well
historance.

Radical secularism

The Infidel Trudition from Pa to Bradlaugh edited by Edword Royle Macmillun, £10.00 ISIN 0 3.33 17434 8 The development of a continuous

and coberem secularist utinck on Curistianity during the nineteenth century is the principal theme of ikls admirably edited collection of documents, for the term "infidel" was most cummonly used in a pejoratlys sense in describe unyone who rejected religion and combined an untl-elericalism with a political and social deviaucy which was positively egalitarian, democratic und ami-capitalist. Some men und women like Thomas Paine, Richard l'arlile, Robert Owen, George Jacob Holyoake, Charles Brudlaugh und Annie Besaut turned abuse intu n proud title : " infidelity ", even if it usver became really respectable, could be reluctantly admired because sincere Individuals were prepared to sucrifice a great tienl

on its account.

By making it possible for students By making it possible for students to study liritish rudical secularism using original material, much of which is um readily uvailable to teachers, Dr Royle has placed many of us in his debt and he has ulsu produced an exceedingly useful companion rolume for his earlier look, Victorian lafitles (1974), which I found most stimulating. Analysis of the rainbow-like cumplexity of British morking-plass radicalism has undoubtedly been made easier. Reoding extracts is made casier. Raoding extracts is inevitably treated us a short cut to historical research, but it would to instorted rescurel, but it woold be unreasonable to expect undergraduates to read through, for lostance, Richard Curlile's Republican, Rabert Oren's New Macad World, or Charles Bradlaugh's National Reformer, erea if copies existed in every university library.

As woll as rulling these trelknown sources, Rayle has undereastensive use of monuscript material

known sources, Rayle hus made extensive use of manuscript material,
provided a useful intruduction,
notes and a biblingraphy. Yet, fullowing the main purpose of thu
series, Illstory in Depth, in which
this rolume belongs, his principal
objective is less interpretative and
much mare an attempt in alloy the much mare an attempt in allow the student to recreote historical experiode os a persmul exercise.
Sensible divisiums within the bank—the tradition of "infidelity", the movement itself, the sources of its stough, the publics of liberation and law and public opinium—produce a reasonable but not unduly rigid goldance.

The origins of radical unli-clericalism were clearly part of the Enlighteumont, itself essentially an arismeretle renction against the concept that religion was all-secompassing. As night be expected, a prolatarien counter-culture was very much slower to develop, and in Eritain was heavily dependent upon middle-class leadership. It was lactically hat inefficiently re-pressed. Religious and accular dis-putations and revivalism, state authoritarianism and the exercise of unambiguous persecution were a unambiguous persecution were a



Bathsheba with David's letter by Jon Steen, in the Wetzlar collection, Amsterdom. A plate from The Religious and Historical Pointings of Jon Steen by Beruch D. Kirschenbaum, published by Pheldon at £20.00.

A religion rejected

Varieties of Unbellef: Alheists and Agnostics in English Society, 1850-1960 by Sosan Budd Helpemann Educational, 59.50 by Sasan Budd Helnemonn Ednenilonal, £9.50 ISBN 0-435-82100-8

National Section Success on a monopolism of the Rationalist Press Association, and the Ethical Union the Ethical Union section of the Ethical Union thought. Her conclusions seem generally valid, though I am sceptical of her emphasis that coal mining tory of each is curefully explored of her emphasis that coal mining but as a sociolngist Budd's principal alm is to investigate the relationship between ideas and the different farms which men and women of varied class ond social large transport in the republican ond opponent of the Established Church was popular despite his others. Where I am complete agreement the start of the stablished church was popular despite his othersm. beckground heve given to those

This bank attempts to enswer such questions as why did individuals became Secularists of Rationalists of Secularism feespite Rudd's reference to my own work to the contrary, which I do not understand).

The Rationalist and Ethleal/Humanist movements only began to make a secularism feespite Rudd's reference to my own work to the contrary, which I do not understand).

The Rationalist and Ethleal/Humanist movements only began to make a secularism from the historical evidence, demonstrated by which time Secularism. Despite overlapping mamberships with each other and with Secularism, each had its own character, more middle its own character. inquiry, and ulso the henefit which the snciulogy of religions octivity and helief can gain from a patient attempt to grapple first with the details of intructably unique historical events.

The section on the Secularists is thu longest and most directly his-torical in its opproach. Rather too frequently there ore miner errors and confusions, as when Budd end confusions, as when Budd twice states that the greatest membership of the National Secular Society was "obout four thousand", sithough the figure of alx thousand was given by Aonis Besant in 1880, three or four years before the society reached its paak. More seriously, by concentrating her discussion on the conflicting roles of the two netional figures, progress and ner discussion on the confecting roles of the two netional figures, Bradlaugh and Holyacke, she seriously underestimates the work of Charles Watis and G. W. Foote,

Isbn 0 435 82100 8

The rejection of Christionity in the pust century has taken many forms bosides that of aputhy. Dr Hodd's purpose is to examine three of these—the Secularism of the National Social Society and its offsheets, the Rationalism of the Rationalist Press Association, and in complete agreement, though, is over the strong "working cless" oharacter of Secularism idespite Budd's reference to my own work to the contrary, which I do not

closs than Secularism had ever been with a strong leaven of schoolteacher membership. Mrs Budd has drawe oo a wide variety of sources including unpublished theses, but it is a pity that, in her analysis of Radonalism and the Cult of Science, she does not appear to have come across W. D. Nelson'a Wesbington, University thesis (1963) on British Radional Secularism.

Her study is nevertheless a major contribution to our undor-standing of the varietles of un-bellef which have flourished and otherwise during the past century, and her work should be welcomed by students from a wida range of disciplines, not least for the way, she has avoided the worst excesses of sociolugical jargoo.

Edward Royle



Handbook of Operant Behavior V. W. Honig and J. E. R. Staddon

Operant psychology today relates to so many homan and minual activities that a broad, ambitious survey was long uverdue. Leading interpreters share their original research in this stimuloting collection, which deals with such topics os thermoregulatory behaviour; stimulus and eversire contruls; the acquisition of lenguage; and behavioural pharameology. 1977 c. 736pp £31.95

Developmental Psychology 2nd Edition

R. M. Liebert, R. W. Poulos, and G. S. Marmor

Busic readings combined with extended discussion ara continued in this updated, revised textbook for courses in child and developmental psychology. Process-orientated rether then chronological, it stresses combustles in normal and abnormal development; in patterns of uging; and in cognitive and social learning theory. 1977 c. 670pp £11.95

Therapeutic Psychology: Fundamentals of Counseling and Psychotherapy 3rd Edition

I., M. Brammer and E. L. Shostrom

Recent outerlal on crisis intervention strategies, behavioural chongo and action methods, and body nwareness techniques has been added to this general ndveneed lext for counselling and psychotherapy currses. The authors proposo a theoretical position collect Crontive Synthesis to help students integrate various concepts before constructing their own working models of therapy. 1977 c. 496pp £11.15

Cognitive Development John E. Flavell, Stanford University

A major innovator in engultivo resourch now writes for students with little or no background in psycholugy. Ho brings togother original work on memory and social cognition along with known findings in the field. Flavell's loog end intimate essociation with Pinget's work enchies him to give readers a clear, readoble account of the child's conceptual growth from birth to young soultheod. This alone should moke Cognitive Davelopment welcome in child development and odnestional psychology closses, hssidea les obvious relevanco to couress in cognition. 1977 e, 300pp Cloth £8.75 Paper £5.55

The Assessment of Persons Norman Sundberg, University of Oregon

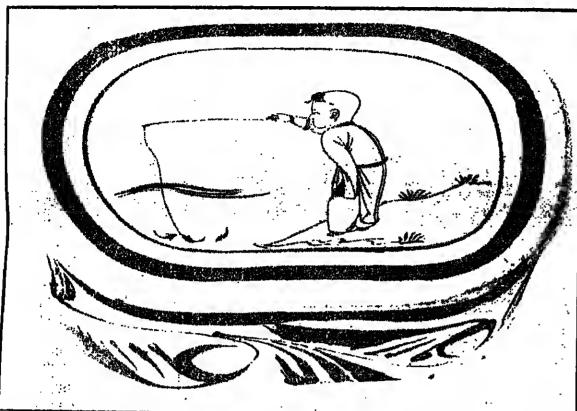
This introduction to personality assessment considers it noth as a psychometric aclence and a clinical art for making decisione, developing Images, and teating hypotheses. A useful text far inclustrial psychology and peracoality assessment coursea, which requires no previous knowledge of statistics. 1977 c. 352pp E9.55

Social Learning Theory Albert Bandura, Stanford University

An importest contribution to the psychology of learning, Dr. Bandure's new book focuses on such key issues as basic modes of learning, cognitively based motivation, reciprocel determinism, and freedom oad social control. From the PH BERIES IN SOCIAL LEARNING THEORY. 1977 Cloth £7.60 Paper £4.7S

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BOOKS



Stoneware pillow painted with a picture of n boy fishing on the top, and brood floral scrolls on the sides. Table choice were, from Act and Archaeology in China by Edmund Capon, published by MIT Press ut £15.00.

What to do in Bristol

what to do in Bristo!

Indiver and the Changing City, 1720-191, 18. Relieved the Changing City, 1720-191, 18. Relieved the Changing City of the title Brish, but it is only he a strictly limited season set that this hook is consequently that the first special and accommic city of earlier that city. This themse solvious as some one asks with what nunters as one or one asks with what nunters are not to one or one asks with what nunters as one or one asks with what nunters are not to one ask wh

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Slave culture

The Black Family in Slavery and Freedom, 1750-1925 by Herbert G. Gutomn Basil Blackwell, £10.00

1965 the publication of Daniel Prince Maynihan's study of the Negro family famed a scholarly controversy which has reverberated to the present day. While acknow-ledging the dire effects of high memployment sud migration to the northern cities, Moynikan drew attention to the heritage of the pest. He accepted old beliefs shoul the undique sovagery of North American slavery and its disruptive effect on the black family, detailing the modern consequences of the matrifocal family in black communities, with women often cunstituting the main wage-earners even if men were present in the household. One cure for the resulting "tangle of puthulogy", Moynihus beliered, was a national effort to atrengthen the block family,

Such propositions clearly under-estimated the positive side of ghetra-life and the achievements of a whole variery of self-help activities undertaken by blucks themselves, while government pyngrammes to create new index on the education appropriate for them seemed more likely to help city dwelfers than schemes to inculcate a sense of family responsibilities. Moreover, in much writing un the black family there has been a tendency to obscure the importance of a stable black extended kinship system and to assume variery of self-help activities under-taken by blucks themselves, while

Roger Mettam

E. P. Hennock, author of Flt and Poetry of the Age of Chaucer of Bernoer Persons: Ideal end Reality M. J. C. Surrey is editor of the Nineleentil Century Urban Gov. National Institute Economic Reserve

Using a vast array of statistical well as literary sources, Profess Continua demonstrates that make a Garman demonstrates that more the shaves out of the very his sample he studied lived in dock hended households and that he diverse social circumstances to marriages often endured for act years. The original and impress quantitotive evidence does to swomp the bank, though it is but thought and sometimes rate helporlansly summarized in the h

laborinusly summarized in the act Much time is also spent on critical ing static models of the skylomaster relationship, which fooms shave treatment and master readily slave culture is presented here; resilient and odaprive, shaped here independent block attitude of bottlefe, which slaveholder in heliefs which slaveholden zi nbolithmists alike — though n different degrees — failed to to preliend.

chirches, for example, were und fied in o veriety of ways, looke the bycomstick ritual. Partifictories and bridal prepared intercourse and bridal prepared in the bycomstick ritual prepared in the bycomstick ritual prepared for the bycomstant mural code, as contemporaris de asserted, but rather a disord black code. Marriage usually fi

SOCIAL WELFARE

DIRECTOR OF THE RESEARCH CENTRE

FORFICER PREMIURA REMARKA REMARKA MARKA MA INTRODUCING A UNIVERSITY IN IRAN

This Government of tran intende to organize e new University in Birjand, e smelt city of 50,000 inhabitents in Eastern Iran. Applicante ere invited for appointment of the Faculty of Science. Work is pleased to begin in October, 1977, in the three basic lielde of Methematics, Physics, end Chemistry. Young PhD holders with project ere requested to archive lields interested in the Profect ere requested to write to :--

T. H. Genil, 620 Aluminium Building, Sheh Avenue, Tehren, Iren, for luther information regarding the planned University end terms end conditions of service

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THE TIMES HIGHER EDUCATION SUPPLEMENT 29.4.77

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John Cutlin School of Medical

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DIRECTOR'S UNIT Applications are inclied as such Applications are inclical as such as possible for this cynosts in the Director's that The Unit, established by the Ultrector of the Retenerh School (Probessor R. Street, F.A.A.), is pursuing experimental research programmes primarily in magnetism. Correct work is conceived with

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Candidates should be UK citizens, possess an
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DEPUTY PRINCIPAL

(PLANNING)

The Council of the University of Cspe Town has established a new executive post, that of Deputy Principal (Plauning).

Applications from interested persons are invited. Nominations from others of sultably qualified persons who may be interested are also invited. The main responsibilities of the Deputy Principal (Plauning) will be considered an overall development plan based.

(Planning) will be
(a) to produce an overall development plan based
on an acedemic plan for the epproval of the
University Sanote end Council 1 and

(b) to develop and present tetional procedures for resource allocation within the University consistent with the development plan.

slstsnt with the development plan.
The post is svoilable to be filled as soon as possible.
Intending applicants ore invited to obtain the information memoranium reforing to this oppointment from the Registror, Room 1, University of Cope Town, Privote Bag, Rondebosch 7700. Formal applications marked PERSONAL AND CONFIDENTIAL should reach the Principal and Vice-Chancellor not later than 18th July, 1977.

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Applications are invited for appointment as Postdoctaral Follow or Bassinch Fellow. Appointments will be for two or litron years and may be made in the tollowing erass:

Organic Chordinity: [Professor A. J. Otrob. Nr. R. W. Rickards, Or J. K. MacLeod, Or. L. N. Mender). Structure determination, synthesis, and blosynthesis of natural products. Including antibiolics and ehe biologically-notive compounds, mould metapolities, and plant and married products; microbiological chemistry, including chemical aspects of associally, insect chemistry, lotel synthesis involving new reactions and airstogles; organic aspects of organomelatic chemistry, organic olectiochemistry.

Theoretisal Organic Chemistry: (Or L. Radom). Organic chemical applications of molecular orbital theory, particularly at this no initio lavel. Structural and mechanistic organic chemistry. Organic conformational configuration.

applications of motocular orbital theory, particularly at the ab initio level. Structural and mechanistic organic chemistry. Organic conformalional analysis. Osvatopment of assuciated computer programmos. Inorganic Chemistry: [Or. A. M. Sargason, Or. O. A. Auckingham, Or. M. A. Bennall.) Synthesis, structure, and resolution mechanisms of evide rango of transition motal completese. Current interests involve authorities and structure, and resolution mechanisms of coordinated flighting, inachenisms at material contrast, reactions of coordinated flighting, and contrast and contrast resolutions of coordinated flighting and alterespecificity in synthesis and quonitietive conformational santysts. Interests in lusarganic blocking and interests in the synthesis and quonitietive conformational santysts. Interests in lusarganic blocking in the synthesis and models for enzymis hydration, dominisace and prophinists. Theropeutic sapocts of coordination compounds. Electrochemical studies or redoc precesses. Synthesis and catalytic propasities of crystolical by complex formation. Theropeutic capacitic complex formation of short-lived organic molaculae by complex formation. Physical and Thuoretical Chamietry: (Prolessor D. P. Creig, Dr. J. Forguson, Or f. Brandy, Or T. It. Weibarry); Electronic physical information resets for melecular crystals, small aggregates and dimors. Transillon resets for security of the security of crystelline solidar crystals, amall aggregates and meeting the security of crystelline solidar crystals, amall aggregates and meeting the security of crystelline crystals, amall aggregates and meeting the security of crystelline solidar crystals, amall aggregates and meeting the security of crystelline crystals, amall aggregates and meeting and catalytic security of the security of crystelline of the security of the secu

are evelleble.

The University reserves the cight not to make an appointment or learned an appointment by invitation at any time.

There is no application form. Applicants should supply to the undesigned by 30 JUNE 1977 e currioutum vilae, list of publications and cotolement of research inferests, together with two passport-sized pholographs, the names and addresses of these seedemic reference and the probable date as which he Posidoctoral or Rosseron Followship, it awarded, could be taken up.

PQ Box 4.

Canberro, ACT, 2600, Austrolle.

O. E. DICKEE, Academia Segistre

LECTURESHIP IN FRENCH

Applications are invited tor appointment to the above past in the Department of Romanco Studies. Dittles are to be sammed so list January, 1978, of as soon so possible thereafter. The Department seeks candidates who could becure in philology and history of lenguage, but the is stol executed by the last of the parameter of the last stol executed in the range R6,300-R9,180, plus a 10% pensionable silovance. The fallist solvy will be determised according to qualifications and experience. Benefits include an annual bonus, pansion and medicat aid facilities, and a bousing subsidy, if origible. The University's policy is soly to discriminate is the appointment of staff or the netedios of sudents on the grounds of sex, race, religion of column. Further particulars religing to this practice are included to entationmation shot abeliable from the Leedon Representative. University of the Witwelszarand, 180 Linkersity of the Witwelszarand, 181 Leedon Representative. University of the Witwelszarand, 181 Leedon Representative. Honey of the Witwelszarand, 181 Leedon Representation specialistic Research R

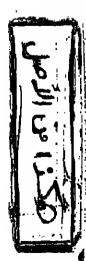
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MICROBIOLOGY

Applications are invited for reaching appointments in the Department of Microbiology from condidates who must have tirst degrees either in Medicine or Science and relevant postgraduate qualifications. Freference will be given to cambidates who have taught microwith the given in candidates with layer practical experi-ence in Medical Microbiology or Industrial Micro-biology, thous mouthly encoluments in the range from \$51,390 to \$\$4,750, approx., the initial amount depend-ing on the candidate's qualifications and experience, ing on the candidate's qualifications and experience, and the level of appointment offered. The gross enrollments camprise basic salary and the National Wages Council wage allowances, in addition, the University pays a 13th annulr annual allowance of one wouth's salary in Decounter of each year, and contributes to the staff member's provident fund at 15 per cent of hasic sulary and allowances. Leave, medical, subsidised University housing and other benefits are also available. Caudidates should write to: The Registrar, University of Singapore, Singapore 10, giving curriculum ritar thin-data, with full personal particulars and also the names and addresses of three referees.

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The University will gladly supply any further information desired on request to the Regis-

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1978

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UNIVERSITY OF IFE-NIGERIA Indications and interior

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LECTURER/

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DEPARTMENT OF MIT

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log and making lewottery, allvor-milhing, furniture or product design.

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n. Hutter, Benistrar, University of Newcastle upon True, 6 Rensington Terrace, Newcastla unun Tyne, Net 700,

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COLDSMITTIS' COLLECT: New Gross, London St. 14 6NW A sile-year ThAbili R [A.LOWSIGI] within the Asile Visual Education Contre, is available to a leacher wishing to develop an earablehold interest in rioscolutruili leligibus and analysistatic learning resources through involvement with the work of the popariment. The person appointed will be calected to contribute in the Lantre's leatiting contribute in the Lantre's leatiting contribute in the Lantre's leatiting contribute wit pursuint will lare an opportunity ut pursuint exact and property of the lantre of the lantre and at the College of the Lantre and at the College feeting staff. It is finged the Lantre and at the College of the Lantre and at the college of the Lantre and at the college of the Lantre and the person annualitied, in the college of C4.702 per annual, lacked and Landre weighting. The midwintenent will be far the staffing in September, 1977.

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Twither delaits and applica-tion turns are available, by past and resules, please, from the Personnel Manager (SEE 21, The Ower University, P.O. flox 78, Welton Hell, Millon Keynes, MK7 641, Telephone; Millon Keynes 631668, Telephone; Clostno dalo for condice-liose; 13th Moy. 1977. With for further particulars is the tersonnol Officer, andictoring a stamped addressed midium-sized envelops. Applications should be sent by 13th kisy, 1977.

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Requests for further particulars should be addressed to the timeser's secretary. Applications should reach this Billsar by 125, 1277,

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Appropriate and small professional qualification and a caponity for leadership radiured. Clanding is allowed by prepared to undertake at least two of the following stein creas at gaministrative responsibility; the S.A. (Law) (C.N.A.A.) full-pittee (Diplona Th. Law) once these (Diplona Th. Law) once the Adaptive of C. (Law) (Law) once the Adaptive of Control of the Control of the

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CITY OF BIRMINGHAM

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Dirither details and applica-tion form (to be returned by 15th May, 1977) from: The Personnel Littler, City of Hir-mingham Polyteclinic (THEN), Room R.5.10, Peccy Bars, Sic-minutum 144 25U.

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Responsible to the Secretary for the ernantation and coatrol of the work of the Finance Section of the administration. togother with general respon-sibility for the Staffine Section. The funncial delige inclose targemitten of annual satisfaire, strings of manual satisfaire, the to the Outcomer, cir. Applicable must hold a recognised accommany qualification, and should have supprepriate a local florer must and ar ligher or lartier Education. itesponsible for implemental and developing the Polytech nit a personnal services un-pulicles. Applicants stood field f.P.N. or whiter appropriate quality cation, and lists expeditures at central level in various aspects of jud sonnel work.

LIVERPOOL

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MALTA

CHAIR OF

PHYSICS

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Further information may be obtained from the Registration University of Mallo, Maide, Malle, to whem delating applications to copies included

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Closing Oole: Friday, 3rd June,

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Applications are invited for the above post tenable from October 1, 1977, or as seen as possible thereafter. Candidate must be insected with a possible thereafter. Candidate must be insected with a possible to content property as the content of service, interest in developing a University, occupational possible active, accupational possible active, active as a University occupational the consecution of service and interest in the consecution of set discounting the content of the consecution of service and service and factories from the content of the cont

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Applications are invited for two-year 3.8.1.C. Sindent-ships from Cyteber, 1977, for research leading to M.Phil./ Ph.D.

Principal Lecturer 25,854 to 27,559 (bur)—89,292. 85,669 Lecturer 25,745 to 86,669 (ber)—27,137. Lecturer II 63,953 to 86,207. Hetails end suplication form from The Establishmin Offi-cr. PCL vito Report Steet Language vito SAL Of 189 2000, ext. 212 Closing dale 15 May 1977.

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(1) FINANCE OFFICER (Solory 95,718 to £6,369 in-clusive of £312 susplannas)

Farther details and applica-tion Juric armitable from the Stating (diver, Lebenter Poly-tectoric, P.R. User (45, Loicea-ter LC) 1914, Closing date: Monday, 15th Moy, 1977,

The past, which requires close the sun will the Academic legistrar is pertinuarly cultimated to the sun ambition of the sun am lindio A.P.S salary scale. ES.R.1 - 5.4 DVA per anatom plus ESTE attopicment. Application forms and forther particulars are available from the Start Labo, Javonand Poppiring, Richmond House, Stantian, Place, Liverond, 1,3 1911, 101, 1031-227 6 1911, 131, 34,

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Gelary ocales (under raviow) | Lecturer I, E2,469 to 64.577 | Lecturer II, E3,279 to E5,493, plus E312 por annum supplements For further particulars and application from freignessies from freignessies and 13th May, 1977), please sent e sale educated in 1922 in the Secretary Manchester Polyfecha (C. Lawer Drogand Street, Manchester M10 ONA.



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Leeds

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PLYMOUTH POLYTECHNIC

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MATHEMATICAL EDUCATION, to study fine until emailed applied a control payment of the control of the contro

CONTROL THEORY, 10 work an the Algebraic Theory at Multivariable Contral Systems

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The Personnel Officer.

Pontypridd, Mid-Gtamorgen,

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> SHEFFIGED CITY THE POLYTICIONS

DEPARTMENT OF PHUAN AND HELHONAL STORMS PRINCIPAL DESTOURN DIGIAN AND DESCRIPA ECONOMICS

MANAGEMENT I IN ESTAIL

Snjery Ocale: £7,1712 LECTURER IL GENION, LEC-

Satury Scales: Sunter Lac-turer: \$5.343-26,257 thur: fo 25.369; Lecturer II: £3.001.

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ULSTER COLLEGE

THE NORTHERN IRELAND POLYTECHNIC

LECTURER II Management Accountancy

Applicants should have an honours degree nod/or be a qualified ACMA/ACA/ACCA with an authorisism for

LECTURER II Financial Accountancy

Applicants should have an honoure degree and/or bn e quelliled ACMA/ACA/ACCA/IPFA/ACIS with en enthusiesm for teaching Selery scele: £3,279-£5,493 + £312 supplement et all

The Polytechnic is a direct grant inabilition with an independent Soard of Governore. It opened in 1971 and now has a student population of some 6,100. It has extensive new purpose-built eccommodation, including 750 residential places on the 114 acre campus overlooking the sea at Jordanalown, a pleasant and quiet residential moe. There is a scheme of assistence with removal

Further porticulers end application torms which must be returned by Mny 16 may be obtained by telephoning Whilesbbey (0231) 65131, extension 2243, or by

The Establishment Officer, Ulster College, The Northern Ireland Polytechnic, Jordenstown, Newtownebbey, Co. Anirim \$137 00B.

Colleges of Higher Education



SENIOR LECTURER AND LECTURER GRADE II (SOCIAL WORK)

Applications ore invited from well qualified men sad women for the posts of Senior Lecturer sad Lacturer Grede II In this Church of England Voluntery College of Grede II in his Church of England Voluntery College of Higher Education (1,600 man and women). The spoolintments are from September 1et; 1977, or as soon etter as possible. The College which we turned in 1975 through the smalgernation of the College, Ripon, with St. John's College, York, offer courses feeding to the eward of the Certificate in Effucation, the Diploma of the Srillish Aesociation of Occupations! Therapists, the Diplome in Higher Education, the Poet-Graduals Cortilicate in Education, the Certilicate in Applied Social Studies the BEd and BA/BSc (Collegiolo) dagrees of the University

Cenditiotes for the lirst post will be graduates in one or other of the behavioural eclences with sociol work qualifications, and should have o record of successful prectice in the lield of penology.

Cendidoles for the socond post will have similar professional quellications, relevant experience, and a special interest in the sociology of devience. The appointments will be at Sanior Lecturer level £5,031 plus £312 to £6,417 plus £312 and Lecturer (Greda II) level (£3,279 plus £312 to £5,493 plus £312). Further details and application forms may be obtained from The Principal, The Callege of Alpon and York 61 John, Lord Mayar's Wolk, York YOZ 78X, In whom completed application forms should be returned to arrive not leinr than Monday, Mey 8, 1977.



Applications are invited to: the following posts

Lecturer I/II in History of Art and Design

To teach 20th Century Art, on CNAA degree courea

Lecturer I/II in Professional Cookery

To teach HND/OND plus City & Guilds 706/1/2/3.

Selary: LI, £2,469 to £4,377 p.a.; LII, £3,279 to £5,493 p.a. (plue £402 p.s. London ellowance and £312 p.a. selsry

EALING TECHNICAL COLLEGE SECOMES PART OF THE NEW EALING COLLEGE OF HIGHER EDUCATION ON 1 SEPTEMBER, 1977. Further daloils of sech of the above posts evelleble

Ealing The Registrer (TD VG).

Eeling Technicel College,

SI. Mary's Roed, Ealing, London, W5 6RF.

Closing dele 13 May, 1977.



This is a Catholic College of Higher Education with 1,200 etudente mixed). It offers the trial Degress of London University. In honorins level, in Arts. Sciencus. Humanities and Education.

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SIMATY'S POSTS, for September 1977, es follows:

College A SENIOR Strawberry Hill ADMINISTRATIVE POST

sulary commonstring at Principal Lee Innot level, with special responsibility for women students. This vectory arises trong the loglicoming referenced of the Vice-Principal for Women, the post is residential. The euccessial epplicent must be well qualified scademically and be prepared to confo-bule to lionous degree work.

LECTURER IN **EDUCATION**

to contribute generally to the work of the Education Cepariment and qualities to isech at honours degree level in Philosophy of Education and easist will professional courses for initial and is service Iramiag.

LECTURER IN SOCIOLOGY

to cantribute to honours degree work in this well established and thriving

Salaries will be in accordance with the Burnham Further Education Scales plus London allowance.

Further delatts trout the Principal to whom applications (there are no offeld torms) should be sent-with the names of litreo ratarnes—to reach this eddress not lator than Friday, 13th Mey. The Principel, St. Mary's College, Strawberry Hill, Twickenham TWt 4SX, Tet 01-692 005t, ext. 222.

CHESTER COLLEGE OF HIGHER EDUCATION

Total and the second second second

Temporary Part-time

Lecturer in Mathematics

Applications are invitat for a half-time post to test MATHEMATICS at this College. The appointment สป bit for a parted of เมเน year beginning in September, 1977.

Lecturar/Senior Lecturer in History

Applications are levited for the post of Lecturer/Senior Lecturer in HISTORY at this College (salary second lo experience). Applicants should be able to offer sons of the following: medieval history (Srillsh and European); on Interest in local history/crchesology; s willingness to be a with protections of the senior of the ngness to help with prolessional courses at primary of

Further perticulors may be obtained from the Principal Chester College, Chesnoy Roed, Chester CH1 48J. 9 whom applications should be sent by May 14, 1977.

Christ Church College Canterbury

Applications ore invited for the following posts:

1) Lecturer in Education

lo bo responsible for the development of sudforing resources. The facilities include a weit equipped IV. Sindlo end specialist Resource Centrus. Candidates much elso be able to contribute to professional course in the B.Ed. degree, the Postgraduate Certificate in Edux. tion and courses for serving teachers.

2) Lecturer in Education

with particular reference to Science ar Mathematical Education to he responsible for the Education units of the M.Sc. degree in Education and Physics which is offered Jointy by the College and the University of Kept. Candidates must be highly qualified in Education and in Science are Mathematics, and be also able to contribute to the Education course or to the professional courses in Science or Mathematics, for the B.Ed. degree, the Postgraduale Certificate in Education and courses for serving leachers.

Accommodation is ovaliable for a single person withing to be a residential luttor.

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Colleges of Art

THE TIMES HIGHER EDUCATION SUPPLEMENT 29.4.77

Colleges of

continued

Higher Education

COUNTY OF AVON

BATH COLLEGE OF

HIGHER EDUCATION

Applications me invited for the undermentioned appointments or September 1, 1977 :—

(1) Lecturer Grade II

MUSIC

al Newton Park

I Newton Park
The work will involve losohing to
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Digrés le Music now in its
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Applicates shauld have the
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Previous lesching experience to
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(2) Lecturer Grade II

HOME ECONOMICS

el Bion Hill Piace, Beih

jagios in Homo Economics How in its socond year of operation. Applicants should be graduales in Homo Economics or an elited field, able in specializa in one of the stess of Food Prepatalian, lettle Science, Ergenomics or Applied Psychology with reference to Health and Seloty, industriel experience would be at advantage.

Ruftes paticulars for alther post my as obtained from the Principal, Bath College of Higher Equation, Newton Park, Sailn BA2 98N. Applications (no forms) should be religied in him, whe names and addissess of lives reteres, by May 9, 1877.

Colleges of Education

CAMBRIOGE

HOMERTON COLLEGE

ordications are having from igualified men and woman the post of LECTIFICIT in FIELOSOPHY of LEUCA-

irom 1st Suttlember.

Salery Lecturer Brade II

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EDUCATION AUTHORITY

Lendon SW16 2UD

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The salary will be are raise to be appropriate point of the appropriate point of the factor of the propriate point of the factor of the point of the

Forther particulars and anniti-tation forms may be obtained from the Academic Registers. to whom spoils along chould be mund by Tuesday, 10 May.

LINCOLNBILIRE

TECHNOLOGY OF

VICE-PRINCIPAL

Applications for this post.

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Holidays and

Accommodation

n work will involve leaching in lovel of the SSe Honoure goe in Home Economics now

INNER LONDON EDUCATION AUTHORITY COCKPIT ARTS WORKSHOP Galeforth Street, NWS SEII (01-262 7907)

Lecturer Grade 1 in Art Education

Lecturer to John a least working to the area of Corriculum Development in Art Education. Applications are invited from people with research interests in Cultural Studies/Media Statics related to Secondary Art Education. Applicants with the expected in have teaching experience together with a knowledge of lineoredical developments in both Education and Studies of Culture.

Salary in accompance with the Surulem (F.E.) Report.

Salery in accombance with the Auraliem (F.E.) Report. Lecturer Grado 1 scale within the range £2,469 to £4,377 plus £402 London Allowance and £312 supplement, starting hot the pendent upon qualifications, ugo and experience. Assistance may be given towards transchold removate extenses.

Detaits and application forms returnable by 9th May 1977 from the Director at the Cockpit.

HERTFORDSHIRE

COUNTY COUNCIL Intifield Noad, St. Albana, Harts, Tol.: 64414

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LEICESTERSHIRE

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Applications having for two posts, to teach I.A. eladents from Englandor. The to 12 have to week. \$3,31 on letter with jusyment of traveling ex-

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LONDON

NOTA: ILINON POLICE AUTHORITY CENTHAL SCHOOL BY Oordinaming New,).ordon WCIU 4AI DEPARTMENT OF INDUSTRIAL DESHIN CENTINESTHINES SUNIRH LEASINGHIS

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Administration

LONDON COUNCIL FOR NATIONAL

AOMINISTRATIVE AOSISTANTS Applications are invited from ORADIATES and those with ngulvalent qualifications end/or reperturbed for these nowly created posts without the armount of the post of the post

Further particulars anny he oblained from K. H. Hooth, Assiyant Secretary, Founding for National According Awards, 344/304 disrys inn Road, London WCI RBP, to whom applications should be sent by 30th Msy, 1977. hepication forms and fur-head particulars obtainable particulars of the particulars of the particular of the particular

ASSISTANT EDUCATION
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HIGHER EDUCATIONS P1 (65,RAT to \$6,864 plun applement of \$312 per annum) supplement of £312 per antitum;
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Colleges of Further Education

LONDON

INNER LONDON EDUCATION LONDON COLLEGE
LONDON COLLEGE Airtje Cardens, WO 7AP LECTURER II

Applications are invited for a Locturer (trade it in the Department of Land Studies and Public Services to teach a range of subjects including soms Housing. The appointment to commones an acon as pondible. Applicants shalld be professionally applicated as held. on approprieto dogree or dip oins and heve had relevar

Salary Scale: £3.279 is £5.493 philis £312 hippionien and £402 inner Lendon Allow ancs).

Application forms and further particulars abiainoble from the Neuton Administrative Officer it; i to be refurred two weeks from unio of advertigement.

Research

SSRC/DFG : REBEARCH VISITS TO THE PEDERAL REPUBLIC OF GERMANY

REPUBLIC OF GERMANY
Under a bi-lateral nurosment with the Doubeles Forschulistischer All (DFO)
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ch 31, 1976, milet eub-epplications bylaro June

Colleges of Education

PLYMOUTH ... COLLEGE OF ST. MARK LECTURER/SENIOR LECTURER IN RELIGIOUS STUDIES Applications are thysical from spillably qualified persons for this post which accomes vector in Beginning 1977. The person is postated in the product of the product of the person of t The Chilege has a ciron commitment to the dovaloument of the local commitment and local committee and local for this interest in its staff. Gining dain for applications is inc 13th May, 977, Further delotis con he obtained from the Principal in Georgian, Colicon of St. Mork and St. John, Devilopi, Book, Physicolib , PL6.

London School of Accountancy LECTURERS IN

ACCOUNTING SUBJECTS

THE LONDON SCHOOL OF ACCOUNTANCY is the largest tutorial organisation in the privets sector providing courses for Chartered and Cartified Studenta Vacancies exist in our London, Manchester and Margste

PART TIME LECTURERS ON DAY AND EVENING COURSES

Preference is given to those with ACA, ACCA or ACMA qualifications. These posts are likely to attract those airsedy angaged in the teaching profession.

The School also has a centre in Birmingham. Further particulars may be obtained from the appropriats address

LONDON SCHOOL OF ACCOUNTANCY

20 Church Street Menchester 4 1PN Tel 081 834 3740

Official Appointments

Tel 01 - 248 8951

General Vacancies

Director

Nursing Practice Research Unit NORTHWICK PARK HOSPITAL & CLINICAL RESEARCH CENTRE HARROW, MIDDLESEX

Applications are invited for the new poel of Director for the Nursing Practice Research Unit at Northwick Perk Hospitel. It is enviseged that the Unit, which is being established by the Ospartmani of Haelth and Social Security, will become a national centre for the study of clinical constant. oi olinical espects of nursing practice.

it is aniicipaled that the Nursing Practice Research Unii will collaborate with the MRC/OHSS Epidemiology and Medical Cere Unii, to which the Director may be cliered an honorary appointment. An honorary contract with the MRC Clinical Research Centra may also be offered to e Director with appropriate interests. The Oirector should be a registered sures, with a good ecademic beokgrouad. Considerable research experience in nursing would be expected plus the ability to lead a teem undertaking a coalinuing programma of work. In exceptional circumetances well qualified candidates who do act hold a nursing qualification may

bs sligible. The appointment will be for a lerm of 8 yaers with the possibility of renewal for a further term. Selary will be within the range £6,536 to £7,388 per annum plus £312 Pay Supplement and £354 Loadon Allowsaca. Further perticulars end application forms can be obtained from the Principal Nursing Officer (Research) at the Cepartment of Health and Sociel Security, Room A317, Alexander Fleming House, Elaphent and Castle, London SEI 68Y. Ciceling date for applications is Mey 12 1077

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Administration

COUNCIL FOR NATIONAL ACADEMIC AWARDS Applications era lavitad for three newly-craetad posts of

ASSISTANT REGISTRAR

with responsibilities in the following araes:---(I) Science and Technology

(II) Arts and Humanitiss (III) Business and Social Studies

In addition to their work in apecified academic fields, Assistent Registrars are lavolved in the development of ecodemic policy. Cendidates should be gradueles or heve equivalent qualifications and have hed appropriate tasching and/or ecedemio edministrative exparianca.

The selary will be within the scale £5,925-£7,311 (meril ber et £6,849) including Loadon Weighting.
Further perticulers of the poet may be obtained from: The Secretary (AR), Council for National Acedemic Awards, 344/354 Grey's Inn Roed, London WC1X 8SP to whom applications should be aubmitted by 20 Mey, 1977.

SHREWSBURY SCHOOL Mathematician

required for September As the poet principelly involves leaching Methe matica to 'A' level and tor eatry to Oxtord ead Cembridge in a strongly methemetical Form, It might suit e gradueta or reseerch studeal otherwise Ihinking of university teach

Applications, enclosing curriculum vites and the namas end addressas of two referees, to the Haadmaslar, Shrewabury School, Sslop, from whom further deteils may be obtained.

600000000000000000 RESEARCHER

ART SERVICES RIANTS
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Courses

LONDON THE UNIVERSITY

INSTITUTE OF EDUCATION M.A. IN EDUCATION IN URBAN AREAS

M.A. IN EDUCATION IN URBAN AREAS

The listiliste proposes to introduce in October, 1977, a new course thismeded to mast this speeds of tetchors, administrators and other sulinity qualified, condicates who have the condicates who have provision of notice in the condition of the interest of the condition of the provision of the course candidates will be expected to pludy in dapth selected is store from a particular perspective is not appropriate institute department, in appropriate institute department, in appropriate institute department, in appropriate in the special condition, principal of the course candidates will be expected to interest the provision of the course candidates will be expected to interest the provision of the course of the course candidates and proper of the course of the course

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Oueensland Australia

Measurement and

(Salary \$A11,851 to \$A18,839 p.a.)

The Depertment of Applied Science at The

Capricornia Institute of Advanced Education,

Rockhempton, invite applications for the

shove lectureship for e contract period of two

The Department has e Buchelor Degree

course in Applied Science (Physics) and o two-

year Diplome in Applied Science. Both courses

ore available for externel study and accredite-

tion for a postgraduete course in Measurement

The ideal candidate for this post will prefer-

Forms of application end further informa-tion ere evailable from the Office of the Agent General for Queensland, 392 Strand, London WC2R CLZ.

STATE COLLEGE OF VICTORIA AT COBURG

MELBOURNE, AUSTRALIA

Applications are invited for the position of

LECTURER/SENIOR TUTOR

IN ORGANIZATION AND MANAGEMENT

ebly heve some industriel experience.

Closing date: 20th May, 1977.

Instrumentation

Iverseas continued

Lecturer in

The state of the s

POSTS IN GHANA

Applicants for all posts must have a British adjucational background with an appropriete degres and experience.

SCHOOLS

3 HEADS OF MATHEMATICS DEPARTMENTS

Nandom Secondary School, Nandom

To leach Mathematics up to " A " Isval organize Mothematics Toaching throughout the School and Isise with the Ghene Association of Mathemetics Teachars. Oegree in Mathematics or with a substantial Mathematics component and 3-5 years' leaching experience essential. Teaching qualification desirable. Solsry £4,010.£5,580 pa. 77 CS 86

Navrongo Secondary School, Navrongo

To toach Melhematics up to " A " evel and organize the Mathematics Osperiment. Osgres in Methematics or with a substantial Mathematics component and 5 years' leaching experience including " A " level Mathemetics (preterebly SMP) essential. Teaching qualification desirsbie. Selery : £4010-£5580 pa.

Tamale Secondary School, Tamale

To teach Mothemotics up to " A " level and to organize the Mathematica Department. Organ in Mathematics or with a substantiol Mathematics component end 5 years' teaching experience including "A" lavsi Mathematics essential. Teaching quolillosilon desireble. Solsry £4010-£5580 pn. 77 CS 68

THE BRITISH COUNCIL

HEAD OF CHEMISTRY

SIxth Form Science College, Legon, Accra

At the second second second second second

To leach Chemistry to "A" level and erganize the Chemistry Ospadinant Oegree in Chemistry er with a substantial Chemistry component and et least 5 years' leaching experience at 'A''level esential. Head of Oppartment experience and teaching quelilicellon destrable. Salary: £4010-£5580 pe.

TEACHER TRAINING COLLEGE

HEAD OF RESOURCES DEPARTMENT

Technical Teachers College, Kumasi

To develop and teech a course in Educational Technology, to encourage staff to develop teaching meterials and to organize the Resource Centre se e development cantre lor tachnicel Institutions. Oegree end at least 5 yeers' experience in an Educational Technology Unit in tertiory education ssentrel. Olplome in Educational Technology sn adventegs. Salery: £4589-£5818 ps. 77 CT 5 Contracts are for 4 years (shorter periods may be possible) and ars guersnieed by the British Council. They include the tollowing benefite : return peasego for the teacher and tamity: Iree eccommodallon: oversees sllowances: ellowances for children and boarding school ises; taree for chtidron's holiday visits; ouilit end bnggage allowances; essistanco with duty and treight on imported cer; peld isrminal leeve. Plaese writs, briefly sisting

qualifications and isngth of approprinte sxperionce, quoling reference number(s) for further datelis and en application form to The British Council (Appointmente), 65 Oaviss Otrool, London W1Y 2AA.

"REVIEW ADELAIDE COLLEGE OF ADVANCED EDUCATION South Australia South Australia The College is situated in the city centre of Adelside and offers courses providing encodestic and prefessional matring for teachers in oscendary schools in aris, schools, economics, commercial studies, music, drams, physical education and school librarianship. Programmes are externed to full-lime, part-lime and external (correspondence) students. At present the College awards a Sacholar of Education degree, an undergraduate dipleme in teaching and various diplomas at the greature level. Applications are invited to the following: OF NEW COURSES' FEATURE

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monthly

For further details

of advertising

please conjact

John Ladbrook

01-837 1234

LECTURER IN SOCIOLOGY

Socialpsy bepatiment has four members leaching a range of see in the general studies area of the Bachelor of Edidolfon the students are stating leachers in Iraining shout tall

diewing eress:
Potifical Ecohomy of Maes Madia and Contamporery Cultural Studies;
Oevalopment and Under-development;

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8 exuoilly end Socially.

Experite in one or more of the ebays erans and en interest in the Sectolegy of Education may be an advantage.

The appointment may be oldered either on a control basis for eminimum period of two years or as a continuing appointment. Applicants affected their preference. Early appointment is anticipated and ability to toke up the appointment quickly would be an example. 8 olery acalee ore :

Locturer, Grado 1 SA 18, 314-5A 10,350 Lecturer, Grado II SA 13, 850-3A 18,925 Lecturer, Grado IIII: \$A 11,031-3A 13,607

Lacijuer Grode IIII: \$A11.C31-SA13.667

[Balaries ero al, present under review]

Applicants chould give peritcularo of oed, present position and safery, ecodomic end proissedored qualifications, leaching exportance and any other intermediate qualifications, leaching exportance and any other intermediate qualifications. Isoching exportance and any other intermediate on their spillip to carry out the dules of the post. The names and addresses of three rolesses should be insate in duplicate, the original to be sent to the Administrative Assistant (Academic), Adeleide College of Advance deficiency for the property of the Administrative Academic (Academic) and the capt to be sent to the Adeleide, South Austrelle, 5000 and the capt to be sent to the Adeleide, South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to be sent to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Austrelle, 5000 and the capt to the Adeleide South Adeleide South Austrelle, 5000 and the capt to the Adeleide South Adeleide Sou

OVERSEAS DEVELOPMENT KNOW-HOW: vital to developing countries

Malaysia Education Overseas

(a) Radio Production

Experts

(b) Media Utilisation and Evaluation

At Educational Media Service, Sarawak, to undertake signification, revitalize existing Schoole Radio Service, supering work of Schoole Groadcosting Statif; to establish Utilization and Evaluation Unit, conduct in-service course for tasker and ecript writers, train local counterpart. Applicants show have substantial appropriate experience with teaching light ground. Appointments 2 years.

Salaries eccording to qualifications and experience plans leble tax-free oversess ollowence in rongs £1,415 to £3,50% ennum. Superannuation rights may be safeguarded. The posts are wholly tinenced by the Gritish Gevernment was I ne posts are whosy insuced by insuring the seventhal year Biltein's programme of aid to the developing countie, is eddition to besic selery and oversage silewances the benefite normally include paid isno, tres lendly passing children's aducation of owences and holiday visits, the score children's aducation of the second selection of the selection of the second selection of the sel modallen and medicel allention. Applicants should be dies

For tuli deletie and application term, places apply, query reterence 317, indicating poet concerned, to:--



MINISTRY OF DVERSEAS DECLEOPMENT Room 30), Eland House, Stag Place, London SWIE 5DLL

HELPING NATIONS HELP THEMSELVES

KELVIN GROVE COLLEGE OF ADVANCED EDUCATION BRISBANE, AUSTRALIA

Kelvin Grove College of Advanced Education is on autonomous, miriti-vocational college apucintizing in the preparation of pra-school, primary and secondary tenchers, it olists a wide range ut meetvice compos for tenchers which include a four year degree program from 1977.
Applications are invited for the position of:

LECTURER/SENIOR LECTURER IN HOME ECONOMICS REF. No. 77/A/9

QUALIFICATIONS:

A degree in Home Economics or Home Economics
 Education (preterably at Master's level or higher) with
 major studies in lood preparation end/or tood science
 including its application to lood preparation.

2. Studies in one or more of the following eross would be an advantage: Home Menogement, Curriculum Dovelopment in Home

Economics Education, Human Ecology, Nutrilion. 3. Successful experience in feeching and developing Home Economics Programe et Secondory or Tertiory **OESCRIPTION:**

The person appointed will be expected to work in the Home Economica Department within the Olvision of Science. The department is proceedly oftening a Olpioma of Teaching in Home Economics to pre-service secondary ol Teeching in Home Economics to pre-service secondary teachera end provides inservice courses to leachers in the upgrading Opioms of Teaching and the Bachslor of Education. A person with initiative end energy is required, who can contribute to the sebove programs and to the development and introduction of a possible Bechalor of the Economics development. of Home Economice degree which meets the needs of both echdols and the community at lorge.

GALARY AND CONDITIONS OF SERVICE:
Lecturer it \$13,850-\$15.925 \$13,850-\$15.925 per ennum \$18,314-\$18,389 por ennum \$18,794-\$20,170 per ennum \$20,828-\$22,010 per ennum Confor Lecturer i Conditions of aervice are comparable to those in universities and collegee of advenced education in Australian Appointment will be made at a level appropriate to the qualifications and experience of the applicant.

CATE OF APPOINTMENT:

The successful epplicant would be expected to take up duly as soon as possible aliar July 1, 1877.

The College Council reserves the right to make an appointment or to appoint by invitation. CLOSING OATE:

21 days from the appearance of this advertisement.
Application forms and further details are evaluable from the Ragistrer, Kelvin Grove College of Advanced Educetion, Victoria Perk Roed, Kelvin Grove, Brisbane, and Addamant In Management of the Advanced Educedinensiand, 4058 AUSTRALIA. ACTING REGISTRAR

SCHOOL OF TEXAS Lecturers (IW in Early

Childhood Education Reference number 2

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CANBERRA COLLEGI ADVANCED EDUCIN

SUTIES: To prepare and toach the principles of menagement applicable to service organizations. The students involved are people working a range of professions including to work in a range of professions including leaching, social wellard, youth work and nursing. Abani half the appointess time will be spent in courses related to school organizates and menagement.

To conduct communication worksheps for students undertaking

To conduct communication worksheps for students undertaking management programmes. To the sible to spirt the icontrolland processos of argenization development to service organizations.

To be sible to spervice elucione undertaking research programmes at the Gradusto Diploma lovel.

To establish sound relationships with oducational and other institutions.

CALIFICATIONS: An appropriate university degree and a initiation will be given to opplication who have liable positions in oducation management.

SALARY: Lacturar | SA18,010-\$A18,865
Lecturar II \$A14,146-\$A18,221
Sanior Tutor \$A12,147-\$A13,983
Applications should be sent as soon ne possible. Ostalis with the specience, telephene numbers and the names and neither streets, one of whem must be a present or recont employer. It is taccessful applicant will have the occanomy sir lair for him/for reforch expenses.

A smiled feature appointment or secondment would be considered, indicating or make a sepondant make the capacity of the second streets. The Cellege Council reserves the right re appoint by missing or make as appointment in response to this severisement.

Applications Close on Monday, 18th May, 1977

Applicationa close on Monday, 18th May, 1977.

State College of Victorie at Coburg. P.O. 80x 179, COBURG, MELBOURNE 3058.

SENIOR LECTURER IN PUBLIC ADMINISTRATION

button To lead the lurther development of courses and labeled in Public Administration. The school offers a programme and la currently planning the infroduction of lumination.

પાલાદિલ્લાના માં માંગાઇ Administration આવાદિલાના An eppropriate degree end substantial આવાદિલાય expariance in a public service environment. ANNUAL SALARY (Auairailen)

Within the following rengee according to qualifications and exparience Sanior Lecturer Grade | \$20,528-\$22,010 Grade II \$18,795-\$20,170

Fifther Information, application forms, and conditions of service may be obtained from the Staffing Officer, S.A. Australia, 6000, to whom applications, including the names and addresses of three referees should be torwarded.

Melbourne State College **AUSTRALIA**

EDUCATION RESOURCE CENTRE

TECHNICAL **SERVICES** LIBRARIAN

Services Librarien in the Education Resource Centre of the Melbourno Sisto Collogo, The person epipointed will esolet the Chief Librarion in the formulation of library social the Chief Library policy, and will be responsible for administering a division stell of opproximately 28 charged with sequing, processing and cataloguing a large annual volume of menegraphs, seriele and nen-book malerials. Applicants should have pretassional library qualifications and a degree legether with extensive relevant experience in a university or college library, pretarably a library with automated systems. Proven administrative shiftly is essential as well as knowledge of modern library measurement to the library and control of modern library measurement to the library and control or modern library measurement to the library and control or modern library measurement to the library and control or modern library measurement to the library and control or modern library measurement to the library and control or modern library measurement to the library and control or modern library measurement to the library and control or modern library measurement and control or modern library and contr of modern library management techniques, important sitributes era the abilities to pion carefully and to maintain good paraonal reletions. GRACE AND SALARY:

Senier Librarien, A\$18,795-\$22,019 p.e. (The Auglration dollar is volued at English (0.64).

The College, which is situated in the centrs of Melbourne, is the largest tertiary institution in Australia devoted to the properation of Primery, Secondary Teachers and Scheel Librariens. Diplems and degree courses, as well as Mester's progrems are ottered in a wide setection of disciplines. Assistance with tares and remeval costs will be given to the appeintes and his

Applications giving personal and professional details, and naming three referess should be lerwarded by May

The Staff Olficer, Melboums State College, 757 Swanaton Street, Carilen, Vic., 3053, Australia. Telephone : (Melbourna) 341-8448.

inquiries may be addressed to the Chief Libraries at the address above.

Colleges of Further Education

Queen Margaret College

EDINBURGH



HEAD OF DEPARTMENT OF SOCIAL SCIENCES

Applications are invited for this senior post from men and women well qualified in the Sehevioural or Scolol Sciences and having good experience of teaching within Higher or Further Education.

Oveen Margaret College, lounded in 1878, is o Scotlish Central institution differing courses at Cagree and Olphome level. The curriculum of the College includes full-time courses in Celetics, Drems, Heeth Visiling, Home Economics, institutional Management, Nursing, Physicianspy, Social Wark and Speach Therapy. Relory: £6,325 per ennum (currently undor roview),

Application forms and luriter particulars from The Secretary, Queen Margaret College, 25 Clerwood Terrace, ECINGUROH EH12 STG. Telephone: 031-334 0111.

Applications are invited for the poet of

PRINCIPAL

: Huntingdon

Technical College

which fells vacent in September, 1977.

following the appointment of the present Principal to a larger College. The College,

which is based in well-eited modern build-

ings and has a good renge of non-advenced courses, is in Burnhem Group 4

Full particulare and application forms are obtainable from the Chief Education Officer, Shire Hall, Caetts Hill, Cambridge

CB3 DAP. Closing date 19th May, 1977.

(Salery £9,033).

General Vacancies

Centre for Information on Language Teaching

and Research (meintained by grents from the Copenment of Education and Science, the Scottish Education, Cepartment end the Doperiment of Education, Northstn irelend)

DIRECTOR

Applications ere invited for this poet which will become vicent from Jenuery 1978 on the retirement of the present holde Salary within range:

£9,038-£10,759

Further information and application forms from: The Director, CILT
20 Cariton House Terrace
London 9W1Y 5AP

Closing date for applications: May 30

INNER LONDON EDUCATION AUTHORITY

Technical Equipment

Principal Clerk (B) required to be responsible, under the Assistant Education Officer (FHE), for advising on the provision of machinery and equipment for teaching purposes and its inetaliation at all FHE establishments in the ILEA area.

Applicants should have teaching experience in further and higher education and related industrial experience. Salary range: £7,860-£8,461 (inclusive of London Weighting

Details and application forms from the Education Officer (EO[Eslab 2A]1), Addington Street Annexa, The County Hall, London SE1 7PB. Piease anciose a stamped addressed envelope.

Forms to be returned by 16 May 1977.

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Inspector of Art and Design Education (District Runk)

required to inspect, advise upon and develop ert and design

required to inspect, advise upon and devsiop ert and design atudies in lurther and higher education establishments of the Authority.

Applicants should possess appropriate qualifications and have hed wide and distinguished toaching experience including some at a high level in a college of art. Professional achievement as ertist or designer is desirable. Salary range: £8,680-£9,626 (inclusive of London Weighling) with possible progress to £10,648.

Delaile and application forms from the Education Officer (EO/Estab 2A/1), Addington Street Annaxo. The County Half, London SE1 7PB. Please enclose a alamped addressed foolscap envelope. Forms to be returned by 16 Mey 1977.

SPORTS COUNCIL EDITING AND ANALYSIS OF DATA

The Boorta Council wishes to be eble to call on people who can, on a temporary and/or part-time besis, and sometimes at short notice:

(1) Undertake secondary analysis of statistical dets to eummarize their substance

(2) Condense or rewrite lechnical reports, sometimes for technical or sometimes for technical or sometimes for ley audiences.

Relevant experience is needed for both tasks. Some journalistic or scademic experience may be dealrable for the second task. Ability to read and write in Europeen languages an adventage.

the aecond taak. Acility to read and write in entryes; languages en adventage.

Anyone interested should write if possible by May 13, 1977, to the Principal Research Officer, The Sports Council, 70 Brompton Roed, London SW3 1EX, giving ecedemic end career experience and enclosing samples of their enalysis or writing.

